DRUG & CHEMICAL MARKETS

ESTABLISHED IN SEPTEMBER 1914 AS "WEEKLY DRUG MARKETS"
Entered as second-class matter Dec. 7, 1914 at New York Postoffice

D.O. HAYNES & Co. Publishers No. 3 PARK PLACE NEW YORK U.S. A.

WESCRIPTION:-U. S., CUBA AND MEXICO, \$4.00; CANADA, \$4.50; FOREIGN, \$5.00 A YEAR IN ADVANCE

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VOL. V

NEW YORK, DECEMBER 17, 1919

No. 67

Entered as second-class matter, Dec. 7, 1914, at the post office at New York, N. Y., under the Act of March 3, 1879. DRUG & CHEMICAL MARKETS

PUBLISHED EVERY WEDNESDAY

D. O. HAYNES & Co., Publishers, . New York Publication Office: No. 3 Park Place.

Telephone, 7646 Barclay . . Cable Address, "Era, New York."

SUBSCRIPTION RATES

United States, Cuba and Mexico.....\$4.00 a year Canada \$4.50 and Foreign \$5.00 a year Single Copies, 10 cents

ALL SUBSCRIPTIONS PAYABLE IN ADVANCE

REMIT by P. O. or Express Order or New York Draft payable to order of D. O. Haynes & Co. Add 10 cents for collection charges if you send local check.

Published at No. 3 Park Place, Borough of Manhattan, New York, by D. O. Haynes & Co., a corporation; President and treas-urer, D. O. Haynes; vice-president, E. J. Kennedy; secreta-ty. W, Haynes. Address of Officers is No. 3 Park Place, New York.



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Longworth Bill Should Pass

"Textile men are afraid of European competition if a fabric is dyed with a better dye than is produced in the United States," said Henry Wigglesworth in testifying before the Senate Finance Committee at the hearing on the Longworth bill. The statement draws public attention to the motives behind the opposition to the dye licensing system. Because their personal interests are affected they would allow German dye makers to kill the American industry, and leave the country without resources upon which to draw in time of war for the manufacture of explosives.

"While the war was on, a great many of the domestic dye-users were very emphatically of the opinion that no conceivable cost could be too high to pay for a self-contained coal-tar dye industry, said Dr. Bernhard C. Hesse in a paper read before Franklin Institute, recently. That was the opinion of these same manufacturers of textiles when they saw their trade facing ruin for lack of dyes. That was during the war. Now the war is over, and their "patriotism" is oozing out of their boots. They are no longer willing to encourage the American dye industry because they fear Germany may produce dyes that will catch the popular favor and win over some part of their trade.

It should be brought forcibly to the attention of Senators, who are soon to act on the Longworth bill and the dye licensing system, that of the 383 dyes imported, according to the report of the Tariff Commission for 1918, only 138 were manufactured in the United States in 1918, leaving 245 points of attack, as Dr. Hesse says, from foreign makers. "What could reasonably be expected from a foreign maker? Would he not first import the 245 dyes which we were not making and then sail in for the 138 or more that we are making? Of course he would."

Then the American dye industry will be where the woodbine twineth, and the notice will read "Friends are requested not to send flowers."

With German dyes immediately available, tex tile and other dye-consuming interests will turn to the members of the United States Dyestuffs and Chemical Association, importers of German dyes, who are fighting the Longworth bill day and night, and say fetch 'em along, and even high tariff rates cannot stop the flood of dyes that will be poured into this country. With the mark at its present low exchange rate German dyes will be so cheap that American manufacturers will close their plants rather than attempt to compete with German prices. Congress should pass the Longworth bill as it stands, ad valorem rates, specific duties, dye licensing system included. "The opposition not only must but ought to fail."

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Telling the Buyer

Joke-swapping, cigar-giving, drink-buying drummers cannot sell chemicals. Chemicals are technical products used in highly technical ways, and success as a chemical salesman is won more and more by the man who knows what he is selling and what use the buyer is going to make of the product. Along with his goods, the chemical salesman must more and more sell expert technical service.

And yet, selling chemicals is not a cut and dried proposition. Percentage and weights, kegs and carboys, f.a.s. and f.o.b., are all unromantic things, but the chemicals are the very heart of modern industry. Every manufactured product from match tips to steel rails depends upon the chemical industry, and chemicals are the key to the romance of big industry.

Selling chemicals in this country has been tremendously modernized during the war. There is, naturally an increasing demand for chemical salesmen with technical training in chemistry. Sales efforts include technical advice on the employment of chemicals and a scientific propaganda in the development of new markets. A brighter and a broader vision inspires the selling departments of American chemicals manufacturers. Evidence of these new sales conditions are now forthcoming in chemical advertising; and we are glad to break one of our strict editorial rules and to call particular attention to the announcement of the Walker Chemical Company appearing in this issue. The formal, business-card announcement of most chemical manufacturers and dealers is supplemented here with selling facts of interest to prospective buyers. This company is not content to tell the world that they manufacture a certain chemical. They want the buyers to know that they manufacture a chemical of specific characteristics, and in their advertisement they summarize these individualities of their product. They tell its melting point, its chemical analysis and the containers and the weights in which they ship.

This is advertising that can serve as a pleasing and profitable example to many chemical firms. Every chemical product, no matter how standardized, that is made by one manufacturer has some selling argument, and every chemical manufacturer knows this. It may be price: it may be packing. The product may have some chemical or some physical characteristic. It may be even more prompt shipments or more carefully maintained standards. But it makes no difference whether a manufacturer is making the newest development in coal-tar dyes or roll sulphur, each brand, each maker's goods has particular selling arguments of its own.

We do not expect that the manufacturer of Caustic Soda will enliven his advertising with rhymes about "Sunny Jim" nor that the maker of benzol will use Maxfield Parrish drawings in his trade announcements; but we know that there is greater profit in much advertising in the pages of this paper, if the advertiser will use his space to tell the buyer the things the buyer wants to know.

The New Narcotic Regulations

The Internal Revenue Department has recently issued in revised form Bulletin No. 35 containing the regulations relating to the importation, manufacture, production, compounding, sale, dispensing, and giving away of any of the narcotics included in the original Harrison Act and the amended sections passed by Congress in 1918. Viewed in their entirety, probably no regulations ever issued by Governmental authority have provided such a multiplicity of detail or minute specialization of the requirements of any law. With respect to the object of the Narcotic Act, the regulations impose upon all individuals who come under the provisions of the law the duty of keeping records which practically amounts to a personal history of their connection with the narcotic traffic.

A perusal of the regulations is sufficient to convince anyone of the determination of the Governmental authorities to enforce the law, and the thoroughness with which every section and paragraph has been drafted is evidence of a full comprehension of the ramifications of the traffic in narcotics. In one direction at least, the regulations tend to be helpful to those coming under their application in that the authorities have placed the various articles named in the regulations in juxtaposition with the provisions of law to which they most nearly relate. With this help no manufacturer or dealer, if he devotes the time and attention he should to the study of the regulations, need have any great difficulty in understanding just where he stands with respect to the application of the law to his particular field of operations. Special liability follows the transactions of every one dealing in narcotics, and no one can afford to make a mis-step; so far as the law is concerned, both sins of omission and of commission are fatal-and costly.

The points of contact which bear directly upon the operations of the manufacturer and wholesale dealer are specific and mandatory, and one cannot transact business which belongs to the category of the other without incurring liability belonging to the particular class of persons to which such transactions belong. In other words, liability attaches to every person who imports, manufactures, sells, or in any way engages in the traffic of narcotics; he must be registered, must pay one or more of the several special taxes imposed, must prepare inventories, keep records, and in general furnish a complete history of his entire connection with all of the articles covered by the narcotic act. With the possible exception of legislation in pre-prohibition days, no act ever placed upon the statute books is so far-reaching in the effort to prohibit the use of any commodity as that which aims to restrict the traffic in narcotic drugs.

Niagara Falls chemical companies were well represented at a meeting to discuss the coal shortage. Among those present were Frank S. Low, Niagara Falls Alkali Co.; E. L. Betts, Hooker Electrochemical Co., and C. F. Vaughn, Mathieson Alkali Co. It was decided that Niagara Falls plants which have a big supply of bituminous coal should assist other plants in that location.

Necessity for the Longworth Bill

Why Dye Imports Should Be Restricted, and Germans Made to Pay for the Privileges of the American Market

By DR. BERNHARD C. HESSE, General Chemical Company, New York

*Paper read before the Franklin Institute, Philadelphia, Nov. 6, 1919.

"There is no question about it, the

HE total manufacturers' value of dyes imported into and made in the United States in 1913 may be put at approximately twelve million five hundred thousand dollars. Distributing these dyes to the domestic dye-using industries, together with the service that necessarily is supplied by the dye-selling houses, may have brought the total cost to the dye-user of these goods delivered at his plant up to twentyfive million dollars or there-

To a country like ours, which in 1914 produced upwards of twenty-four billion dollars of manufactured goods, taken at the net selling value at the factory, \$12,500,000 does look like a very small drop in a bucket, doesn't it? Just under one-twentieth of 1 per cent. Now the tonnage or actual value of watch-hands used in this country may be very trifling, but a watch without hands is useless. So with dyes. Eliminate the color produced by coal-tar dyes

from the host of colored articles about you in daily life and see utility disappear and values shrink to insignifi-

Affects 1,000,000 American Workers

This little amount and small money value of coaltar dyes affects, by and large and quite directly, the livelihood of more than one million employees in this country, working in upwards of eleven thousand of our manufacturing establishments operating in twenty-four different lines of industry, having an invested capital of more than two and one-half billions and producing annually two billions six hundred millions of dollars of manufactured product valued at the the true net selling value at the factory; this is about 10 per cent of the corresponding value of our entire products of manufacture in 1914. One-eighth of the annual product of 40,000 people, largely in Germany, so importantly affects the work of 1,000,000 of our own citizens, and is an important factor in the values of goods made here, amounting to more than two

opponents of the so-called license system have many good and substantial reasons for their opposition, but I believe that in the larger interests of the greater public that this opposition not only must, but ought to, fail. The precedent that would be established by imports-exclusion is not lightly to be dismissed, and the danger that, after the war, licensing may therethrough become extended or more slowly extingwished in other lines, is not at all wholly fanciful. Nevertheless, I believe that the danger of our not having dye independence through failure to create this precedent is unquestionably greater than any danger or harm that can reasonably be expected to flow out of such precedent. We have it in our own hands to control events that flow out of our precedents, but I am convinced that we cannot have our dye independence without creating this particular precedent. In part, it is actually forced upon us by the action of England, France and Italy." [Dr. Bernhard C. Hesse on the Dye Licensing System.]

hundred and ten times the value of the dves involved.

German Competition

The consolidation of practically all of the German dye factories into one large combination makes that country better placed than before the war to pursue this business all over so much of the world to which its products may have access. The circumstance that the factories of most of the big members of that combine are in occupied territory and the obligations which all members of that trust have definitely as-sumed under the Peace Treaty, to place specified quotas of their output at stated intervals at the disposal of the Reparations Commission, may make that organization far less powerful as a competitor in non-German territory than it otherwise would have been. In England, too, consolidation and merger among dye-makers with Government sanction and participation are proceeding. These consolidations and mergers are

each and all openly avowed to be for the purpose of increasing competitive ability by reducing production costs, increasing quality and quantity of output, eliminating destructive internal competition and exchanging within such mergers information and experience in

research, manufacturing, operating and in technical service. Alliances between some of these mergers is within the range of possibilities. With the greater introduction than theretofore of labor-saving devices in this industry in Europe which is bound to ensue, it is not unreasonable to expect that the annual output per person engaged may rise from the 5 tons of pre-war times to as high as 8 tons. In 1918 the corresponding figure for the United States industry was just over one ton.

Future of American Dye Industry

The probable dye requirements of dye-users outside of Germany for 1920 can hardly be expected to exceed 250,000 tons of the pre-war commercia; strengths and kinds. In 1918 we made about one-tenth of

"While the war was on a great many, not by any means all, of the domestic dye-users were very emphatically of the opinion that no conceivable cost could be too high to pay for a selfcontained, domestic coal-tar dye industry. With the introduction of the Longworth Bill, which embodies much of the nature and the amount of this cost, some, not all, of these formerly enthusiastic dye-users are singing very low and a few are openly against the contemplated cost, of course, on the ground that some of the safeguards demanded by the dye-makers are not necessary, and some very few are of the opinion that large domestic industries should not be taxed to make permanent the coal-tar industry that we now have. Sounds, in part, alarmingly like 1913 all over again!" [Dr. Bernhard C. Hesse on the Longworth Bill.]

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that amount and normally we have consumed about two tenths of the non-German requirement; seven countries will be bidding for this non-German consumption where formerly there were in reality only two bidding; some of that market will be closed to us just as we will most likely close parts if not all of our market to all other competing countries.

Our annual labor per capita tonnage output in 1918 was one-fifth the pre-war foreign figure and our 1918 figure may be as little as one-eighth of that of at least one, if not two, of our six competitive countries in 1920; foreign distributing costs may be expected to shrink; our own research must become extensive and intensive; our own dye, textile and like markets may be invaded by foreign dyes in the shape of dyed or colored articles of manufacture, in which case novelties will be difficult, if not impossible, of identification.

Progress from 1914 to 1918

We produced in 1918 about nine times as many pounds of coal-tar dyes as we did in 1914 and which former comprised substantially one-third of all the different kinds of dyes we needed in 1914, and in addition we made all our own intermediates instead of buying them abroad as we did in 1914, and had a goodly quantity of both intermediates and dyes left over for export and of the former for military purposes; we have a higher protective tariff than at any time since 1883

From the point of view of patent rights, Germany has none here and we have all enemy-owned patent rights in existing United States patents and on all such patents as may issue upon all enemy-owned patent applications pending in the United States Patent Office, and against which patent situation there is the probable defect in some of the dye-patents in which materials dyed or colored abroad with such patented dyes are not themselves within the scope of these patents. That, it seems to me, puts the main facts broadly confronting our dye-maker in a nutshell.

Colossal Jobs for Dye Makers

Now the American dye-maker is going to be very much occupied in increasing the number of different kinds of intermediates and dyes required in expanding his assortment of them, so that they more closely approximate to this country's own needs; and further, in so improving his operations and equipment that his annual labor per capita of tonnage output will be increased fivefold, let alone eightfold or thereabout, and in improving qualities of output as well.

Obviously and self-evidently he cannot properly attend to those three colossal jobs if he is to worry about having his own and his domestic customer's market invaded by outsiders or if he is to be avoidably hampered or harassed in his work by other factors. In addition to all this he must keep on exploring new fields and must watch for and duplicate or excel all new, important and successful efforts of his foreign competitors. He is certainly entitled to all the help he can show that he really needs if, for public benefit, it be indispensable that this country shall be free and independent in the matter of coal-tar dyes.

So far as patents are concerned, the remedy is entirely in his own hands under our present laws and he needs no new patent laws whatever; all that is necessary is that he so frame his patent-applications that they cover his new dyes, not only as dyes, i. e., as materials capable of imparting color, but also after they have imparted that color, inclusive of the material to which that color was imparted. The public must relieve him of foreign competition if it expects him to succeed.

Market for German Dyes

Of the 383 dyes imported, according to the report

of the Tariff Commission for 1918, only 138 were made here in 1918, leaving 245 points of attack from foreign makers. It is a chart both for offensive and defensive tactics.

With no hindrance other than tariff duties what could reasonably be expected from a foreign maker, particularly the one or ones who had been supplying each and all of these 383 dyes to this country and who presumably have their pre-war plant and skill at their disposal, especially since those particular foreign makers are now combined into one? Would he not first import the 245 or fewer dyes which we were not making and then sail in for the 138 or more that we are making? Our markets are bare of these 245, the demand for them, or most of them, still exists, and they will be sold if offered; there is no domestic offering of them, hence no domestic competition. Of course he would. Then what inducement would the domestic dye maker have to tackle the 245 dyes? Satisfactory amounts and qualities of them would be in this country or awaiting shipment to us from abroad and almost immediately available. Plainly the inducement would have constantly decreasing attraction for the domestic dye maker. The tariff rates, even under the Long-worth Bill, if very recent and almost eleventh-hour confession of lack of skill by our dye-makers be true, would not suffice.

Quite late in the 1919 hearings before the Committee on Ways and Means it was urged that our dye-makers are still a very long way from being the efficient makers of both intermediates and dyes they very well knew that they should be and that the Germans and the Swiss had long been, and that is why they must have increased tariff rates over the present: that they should get twice and perhaps three times as much in weight of finished intermediates and of dyes out of the same weight of coal-tar and other materials as they are now getting, to be on a par with the Germans or the Swiss in point of skill or efficiency alone.

Under those circumstances the American dye-maker's costs per pound must be twice or three times those of these foreigners; that is, it would require a 100 per cent or a 200 per cent duty to equalize this lack of technic or manufacturing skill alone, all other things, such as materials' costs, labor, overhead and the like, per equalized batch of raw materials being assumed equal for present purposes.

GRASSELLI CO'S SAFETY EXAMINATION

The National Safety Council, 168 North Michigan Avenue, Chicago, tells in a recent circular about an examination held by the Grasselli Chemical Company at Cleveland for the employees who took the safety supervisors course in that city recently. Describing the examination and its results, E. C. Rogers of the company says:

"These examinations were limited to those men who attended ten or more of the fourteen lectures, fourteen men proving eligible and twelve men participating, the matter of participating being left voluntary with the men. Four prizes were awarded: First, \$25; second, \$15; third, \$10, and fourth \$5. We thought it only fair to give some allowance or handicap to those men who had been faithful in their attendance of the lectures; we, therefore, decided to allow two points handicap for each lecture attended or a total of twenty-eight points for the fourteen lectures, leaving a total of seventy-two points to be distributed on the merit shown in the examination."

The foremen who failed to give correct answers were later instructed how to act in the cases they did not understand.

UNITED STATES TO GET VAT DYES IN SPITE OF GERMAN AGENTS HERE

Dr. Herty and Alien Property Custodian Expose Efforts of New York Firm to Delay Shipments-Text of Dr. von Weinberg's Cablegram-American Vat Dyes Soon

German vat dyes in the full quantities desired will be available for the use of American manufacturers, according to a cable message received on Monday by Dr. Charles H. Herty from Dr. Von Weinberg, head of the German Dye Kartel, reading as follows:

"Have pleasure informing you that I have succeeded prolongation option as given you fourth October. All details are ready negotiate with your representative Stephenson, Paris.

(Signed) "Von Weinberg."

H. G. Stephenson, representative of the Textile Alliance, has now reached Paris, and will be in a position to close the matter at once so that all the needed dyes can be produced as quickly as possible.

Dr. Herty, with the approval of President Wilson, went to Paris last September to arrange channels for securing a six months' supply of vat dyes for American consumers. American manufacturers expect to have a full line of vat dyes of their own ready within six months. The du Ponts report that eight or ten vat colors will be ready for the market early next year. The company is standardizing them, and the chemists desire to finish this work before the dyes are sold. It is said that over twenty tons have been produced.

The purpose of Dr. Herty's visit and the arrangement with the German dye manufacturers is to cover the present acute shortage in this line and to bridge the gap for consumers until American products are

On Dr. Herty's visit to Paris, he found that through the Reparation Commission there could be obtained about 30 per cent of the dyes American consumers required, and to supplement this the remaining 70 per cent was provided for by the proposal on the part of German manufacturers to furnish the unfilled needs at definite prices. Much delay in accepting this offer was experienced through the differences of opinion among consumers as to channels of importation. These difficulties, however, were voluntarily eliminated. An assignment was made of all importation rights to the Textile Alliance, which had been designated by the State Department to receive the dyes coming under the Peace Treaty.

Dr. Herty's arrangement was very nearly upset, however, by the action of German agents in this country who attempted to delay shipments and cause misunderstanding in Germany. Dr. Herty explained the situation to a representative of DRUG & CHEMICAL MAR-KETS, saying:

"Evidence was submitted to the Senate Finance Committee by Alien Property Custodian Francis P. Garvan that Kuttroff, Pickhardt & Co. were advising German manufacturers that the American policy was to be changed so that they could import directly through their agencies.

"This seems to have led to the cablegram of Nov. 25 stating that the Germans were unable to extend further the agreement made on Oct. 4 regarding the supply of 70 per cent. This was referred to the State Department. The Department, with all the records before it, declined to consider this as a cancellation of the offer and entered vigorous protest through its representative in Paris against such procedure.

"I first heard of the action of German agents in the United States during an interview at Frankfort with Dr. C. von Weinberg, the head of the German Dye Kartel. We proceeded to the Badische plant in a comfortable mood. But the first few moments of the interview with the officials of that plant brought out from Director Krell the volunteered information that the lines had broken at home, that already he had in hand orders from individual consumers with authority from the United States Government to ship through their American agents to the consumer.

"'Cocky' is the only word to describe the attitude of the director. He had no desire to discuss any matter in which we were interested, but with characteristic German psychology he endeavored at once to secure our assistance in persuading our Government that this whole matter could and should be handled only through the American agents of the German dye works. 'Yes,' he said, 'We are going to get back our old business in America, and through the medium of our former agencies. This is the only way it should be done, and this is the way it will be done.' The remark was so illuminating that we asked him to repeat it, and he did."

Mr. Pickhardt, of Kuttroff, Pickhardt & Co., when approached by a representative of DRUG & CHEMICAL MARKETS appeared greatly upset and refused to discuss any question that was in any way connected with German dyes. The words "German dyes" apparently antagonized Mr. Pickhardt, who appeared to look upon the reporter as an intruder and one whom he should guard against.

What do you want to know?" he asked.

"You sent cablegrams to Germany, according to reports, and I want to verify-

"There is nothing to verify," said Mr. Pickhardt, and turned on his heel and entered his private office.

ATLANTIC DYESTUFFS CO. EXPANDING

The Atlantic Dyestuffs Co. has purchased the L. H. Shattuck Co's shipyard at Portsmouth, N. H., and will use the site for a plant for the manufacture of dyes. The Shattuck Co's yard comprises twelve shipways, which were built for the construction of 3,500ton wooden ships. It has a total acreage of 69.9 acres, of which 35.9 were owned by the Fleet Corporation, and are included in this sale. The yard has a waterfront of about two thonsand feet along the Piscataçua River, four and a half miles upstream from Portsmouth, N. H.

The Atlantic Dyestuffs Company also purchased considerable of the equipment and material that was in the yard, all of which will be used in the erection of an ex-

tensive plant.

Arthur S. Somers was elected president of the Institute of Dry Color Manufacturers, at the annual meeting at the Drug and Chemical Club last week. Philip S. Tilden, who retired, is now with the du Pont Chemical Co. An ebony and silver gavel was presented to Mr. Tilden, and speeches were made by leading mem-

The Walker Chemical Co., Pittsburgh, Pa., has control of the foreign rights of the oxidation process for the manufacture of phthalic anhydride which was developed by the Bureau of Chemistry, U. S. Department of Agriculture.

The Perkin medal will be awarded to Prof. Charles F. Chandler this year, for his work in standardizing kerosene. The award will be made Jan. 16, at the Chemists' Club, by the Society of Chemical Industry.

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CONTROL OF DYE IMPORTS EXPLAINED AND MOTIVES OF OPPONENTS EXPOSED

I. du Pont Says Company Would Quit if Congress Failed to Give Adequate Protection—Frank D. Cheney Favors License System—Henry Wigglesworth's Testimony

(Special to DRUG AND CHEMICAL MARKETS)

Washington, D. C., Dec. 15 .- The Senate Finance Committee has held almost daily sessions on the Longworth bill, opening the hearings a week ago to listen to the views of Joseph H. Choate, General Sibert, Admiral Earle, Dr. Manning, Col. Amos Fries, Col. C. B. Harris, Dr. Marston T. Bogart, Dr. Josef Stieglitz and George Denning, whose testimony appeared in the Dec. 10 issue of DRUG & CHEMICAL MARKETS. Then followed the members of the Executive Committee of the Manufacturing Chemists' Association, of which Henry Howard, of the Merrimac Chemical Co., is chairman. Mr. Howard told the committee that without some sort of a flexible, selective embargo on imports, which can be accomplished by the Longworth bill, Germany, by unfair competition and the fact that our own patent laws are imperfect, will be able to compete destructively with the American dye industry.

Senator Nugent asked why there was no dye industry in the United States before the war. One of the principal reasons, Mr. Howard said, was the German practice of patenting everything in this country and refusing licenses to anyone to use them. They used the United States patent laws for maintaining a mo-

nopoly for Germany.

During the life of a patent the Germans could control the commodity so covered and charge high prices. It was their practice to write off their plants during this period of high prices. When the patents expired and our own manufacturers entered the field the price would be reduced to such a level as to make the business unprofitable. Mr. Howard declared there never was a tariff law in this country that provided adequate

protection for the dye industry.

Henry Wigglesworth, of the General Chemical Company, New York, said that what is needed in the industry is capital, and capital will not be forthcoming until the money powers are assured that the industry will be amply protected. There is, he said, more money invested in chemistry in this country than in Germany. The Germans, he thought, could get around any tariff wall America might seek to erect. He also showed how the friends of the Germans, the textile men of this country aiding unwittingly, sought to exempt the indigos from the last dye protection measure, and were successful in having the specific rate set aside. Mr. Wigglesworth added:

"The textile men are afraid of European competition if a fabric is dyed with a better dye than is produced in the United States. They would be willing to take the word of an impartial board like the Tariff Commission as to what dyes should be admitted under a regular tariff that Congress might fix, but the tariff would have no bearing on cost of production."

Irenee du Pont said the du Pont interests would be among the first to quit if Congress failed to provide adequate protection for the American dye industry.

Mr. Du Pont urged the adoption of a licensing system which would be continued for a period of ten years backed by high protective duties. He said further that the dye industry should be exempted from the operation of the Sherman anti-trust law. If Congress provides a licensing system only for a period of two years as is proposed in the Longworth bill, Mr.

Du Pont said that capital would be frightened. He said five years might be a long enough period, but ten would be better.

Pending enactment of legislation Mr. Du Pont said his company has delayed putting an additional \$5,000,000 into the dye business. He declared that his company had developed eight vat volors and expects to have them on the market in January.

That the arguments in favor of a license system are having their effect was indicated by a remark made by Senator Curtis, following Mr. Du Pont's testimony,

"I think the general feeling is that the industry cannot be protected by any tariff," said Senator Curtis, "There must be some other protection. I think a majority of the Senators are of that belief."

James T. Pardee, of the Dow Chemical Co., and A. H. Hooker favored the dye licensing system.

D. F. Waters, of Germantown, Pa., and president of the Master Dyers Association of Philadelphia, testified in regard to the cost of dyeing various articles of merchandise. He said he was engaged in dyeing all kinds of materials in the way of upholstery, materials for men's and women's clothing and hosiery and practically all fabrics except silk. He said American sulphur colors are good and they stand up in shirting, etc., under any washing except where chlorate of lime is used, and will stay bright as long as the material lasts. The cloth, he said, of which a \$60 suit of men's clothes is made costs 32 cents for dyeing and the cost of the dye in a dozen pairs of silk stockings is 134 cents. The cost of dyeing is in the labor and coal and material used in the process rather than the dyes themselves.

The cost of the dye in a pound of \$4 goods is 15 to 18 cents, or about 20 cents with the labor charges. This is material that sells at from \$7 to \$10 a yard.

Frank D. Cheney, of Cheney Brothers, South Manchester, Conn., silk manufacturers, gave the result of an investigation to determine the cost of the dyes entering into the coloring of twenty-two leading silk fabrics. It was found that the lowest dye costs per yard is cn 36-inch washable satin and amounted to seven-hundredths of one cent, the fabric itself selling at \$1.25 per yard. The highest cost in the twenty-two qualities examined was on fifty-inch piece dyed cotton filled velour and amounted to thirty-four and nine-tenths cents per yard, the goods selling at \$9 per yard. The costs vary between these two limits, the average being about twelve cents per yard upon goods averaging in price \$4.70 per yard.

"I believe," said Mr. Cheney, "no matter how high a tariff you may put on dyes it will not accomplish its purpose. A high tariff will procure revenue but it will be a tariff for revenue only. The situation is entirely different from that which our other industries faced in building up. They had no world-powerful monopoly to face. They had not the intricate experimental problems to work out before they could get production going. The Germans have on hand enormous stocks of dyes. They cannot sell these to France, England or England's dominions. They can only sell them to us or to China, and if they cannot accomplish this the dyes are worthless. They can afford to give these dyes to us for a period of time rather than lose their industry."

The requirements of the United States in dyestuffs for one year are thirty-five million dollars. The German capital in the dye industry amounts to five hundred million dollars. If the Germans gave the United States a year's supply of dyes, enough to wreck the American industry, they would be sacrificing only about 7 per cent.

Mr. Cheney thought the number of cases in which licenses would be questioned would be small, certainly for the silk industry. American dye makers can now care for from 88 to 93 per cent of the demand, leaving from 7 to 12 per cent for which no home dyes are

yet available.

James B. Clark, of the United States Finishing Company of New York, operating three plants in the State of Rhode Island and two plants in the State of Connecticut, told the committee it would require five years under the licensing plan to assure the future of the dyestuffs industry. "We do not want to be in the position of depending on Germany for our supplies," he said. "We believe in tariff, but we do not think a tariff will take care of this problem. We think a licensing system will have to be attached to it. With proper assistance, the dyestuff industry will be put on a basis whereby it can compete with that of Germany or any other country."

Col. John P. Wood, of Philadelphia, who has led the fight of a group of textile manufacturers against a license system for control of imports of dyes was a witness toward the close of the hearing. Colonel Wood criticised the action of the Government in sending Dr. Herty to Europe to make arrangements for the importation of German vat dyes. He censured the War Trade Board for failing to follow the simple course of issuing licenses such as might be asked for.

"If the tariff rates asked by the industry in 1916 were sufficient to protect the industry after the war, as they were meant to do, will not the rates in this measure, which are much higher, be sufficient to afford protection without the licensing system?" asked Colonel

Wood.

W. P. Pickhardt, of Kuttroff, Pickhardt & Co., New York, said he did not believe that the dyemakers had sent their dyes into the interior of Germany to evade the demands of the Allies. He further testified that while in Germany recently he asked the Badische Company for an option on all dyes that they might send to America and was told that that arrangement would be very desirable because of the fact that his company has its selling force and its technical personnel to help the dye consumers intact.

Francis P. Garvan, alien property custodian, submitted a number of telegrams showing that delay in getting dyes in this country had been caused by cablegrams sent by representatives of German dye makers here. The vat dyes needed by shirt manufacturers had been delayed in this way. Dr. Herty, the American representative, had received the promise of Herr von Weinberg that the shipments would be made. The following cablegram, Mr. Garvan charged, had caused

a change in the arrangement:

"We fully expect modification of Government regulations which will permit us to confirm our orders. This will enable you to maintain your position that all goods to this country, outside of reparation goods,

should come to us.

(Signed) "Kutroff, Pickhardt & Co."

Garvan said that Dr. Herty, after making his arrangements with Von Weinberg, came home and a tabulation was made of the needs of the United States.

Money was secured to pay for dyes and the plan of distribution was made. This country was to have 30 per cent of its needs from the accumulation of German stocks. Then Kutroff, Pickhardt & Co., seeing the license system was about to come and America was to be free from dye shortage for the next six months, and desiring to hinder the Longworth bill and the licensing system, sent their cablegram, and hoped, Garram said, to get firms in need of dyes to come before the committee and oppose the license system.

BUREAU OF CHEMISTRY'S RESEARCH WORK

Dr. Carl L. Alsberg Tells of Aid to Industry by Development of Dye Processes, Production of Citric Acid and Other Products—Improved Methods for Making Starch

Washington, D. C., Dec. 16.—Enforcing the Federal Food and Drugs Act, developing methods in food distribution, finding uses for waste products, aiding industrial development by working out technological processes, and reporting the results of chemical research are features of the work of the Bureau of Chemistry, U. S. Department of Agriculture, during the last fiscal year, as outlined in the recently published report of the Chemist and Chief of Bureau, Dr. Carl L. Alsberg.

Slack-filled cans, decomposed eggs, fake egg substitutes, butter containing excess water, glue sold as edible gelatin, olive oil adulterated with cheaper oils, frozen oranges, canned tomatoes adulterated with water, "soaked" oysters and scallops, cocoa adulterated with cacao shells, adulterated and misbranded vinegar, falsely labeled and adulterated stock feeds and misbranded medicines were among the violations of the Federal Food and Drugs Act on which 1,052 seizures and 843 criminal prosecutions, inaugurated during the year, were based. Other products involved in the regulatory activities because of adulteration or misbranding, or both, were beverages, extracts, flavors, candy, coffee, tea, food colors, milk, cream, crude drugs, pharmaceutical preparations, fruits, jams, jellies, lard, meat, poultry, nuts, sirups, spices, vegetables and water.

The first complete and critical survey of the fat and oil industry of the United States was made in co-operation with the United States Food Administration, and the results, with statistics of the industry, have been published.

For the purpose of conserving sugar, a number of substitutes were investigated and methods developed for using various substitutes in the manufacture of soft drinks. A valuable service was rendered the soft-drink industry, since many bottlers who were unable to secure sugar were saved from disaster. Some of the substitutes proved to have such merit that they probably will remain in permanent use. Sugar substitutes for use in baking and cooking were also recommended.

Corn cobs, one of the largest waste by-products of farming may now be utilized as the result of processes which have been worked out and patented for the preparation from corn cobs of adhesive gum and of the rare sugar xylose. Processes for converting xylose into substances which may be useful commercially have been pat-

ented and published.

Cull oranges and lemons not suitable because of size, shape or defects for shipment as fresh fruit are used for the manufacture of many useful foods and chemicals. A citrus by-products laboratory operated by the Bureau of Chemistry at Los Angeles, Cal., has worked out new methods for the manufacture of marmalade, vinegar, candied peel, juice, citrate of lime, citric acid and other products. As the result of this work, a profitable citrus by-products industry has been established on the Pacific Coast. Work is now under way in Florida.

Work to improve existing methods for the manufacture of starch from cull and surplus potatoes is under way. Methods for the manufacture on a small scale of sirup

from sweet potatoes have been published.

Practical results are reported in work to aid in the development of the production of dyes, leather, naval stores, paper, fabrics and insecticides in addition to the technological work on foods. New processes for the manufacture of sensitizing dyes have been discovered and patent applications filed. A new dye of great value to physi-

cists has been prepared. The new method for the production of phthalic anhydride, a valuable dye intermediary, is in successful and commercial use. A new photographic developer has been produced and the process published.

Reports on the production of naval stores, including gum rosin and gum turpentine, wood rosin and wood turpentine, have been published. Specifications on the properties, the sampling and the laboratory examination of turpentine have been prepared.

Equipment to produce insecticides and fungicides on a semi-commercial scale has been secured in order that manufacturing processes may be improved and that new types of useful insecticides and fungicides may be devised. Methods for the manufacture of calcium arsenate have been published.

The report of the chemist also mentions many scientific investigations relating to drugs, food nutrition and methods of analysis. The results of research, in so far as completed, have been published in various technical journals.

WOULD RESTRAIN CHEMICAL COMPANY

The A and B Export and Import Corporation has begun suit against the Franco American Chemical Co., and two officers of the company, asking a restraining order to prevent the chemical company from disposing of its assets. A suit over caustic soda was begun in the Supreme Court in March, and the A and B corporation obtained a verdict for \$4,000. On appeal a new trial was ordered. The chemical company represented that the caustic soda was purchased from the "K. F. G. Products Corporation." The plaintiff declares that the caustic soda was a poor grade known as "bottoms," and that the "K. F. G. Products Corporation" was a dummy concern. The reversal of the case, the complaint says, was on an error of law. The present suit is brought to save the assets of the Franco American Chemical Co. in order to satisfy any judgment that the A and B corporation may obtain against the Franco American company. In affidavits accompanying the complaint officials of the A and B corporation tell of investigations made by them into the financial standing of the Franco American Chemical Co. Milton Mayer, attorney for the Franco American company, threatens to submit the affidavits to the district attorney on the ground that they form an unwarranted attack upon the credit of the company.

VERDICT ON SODA ASH CONTRACT

The jury in the suit of Joseph B. Miller against W. K. Jahn & Co., over a contract for soda ash, returned a verdict for the plaintiff for \$3,884. D. R. Bernstein, who appeared for Joseph B. Miller, stated in the complaint that the plaintiff accepted one carload of soda ash, but rejected three carloads as not up to grade. Albert A. Stickney in his answer filed for W. K. Jahn & Co. stated that the firm bought the material in the market, but never tested it, and supposed it was of the quality represented. The soda ash was sent direct to Joseph B. Miller by the dealer from whom it was purchased by W. K. Jahn & Co.

GRASSELLI CHEMICAL CO. WINS SUIT

Justice Cohalan of the Supreme Court dismissed the suit of William Luddecke against the Grasselli Chemical Co., for alleged breach of contract, holding that Luddecke had failed to prove his case. T. A. McCob stated in the complaint that Luddecke was employed for certain work and afterwards promoted to a position of confidence. Later he was given work not called for in his contract. J. W. Prendergast appeared for the Grasselli Chemical Co.

SHOULD GAS COMPANIES PRODUCE INTERMEDIATES FOR DYE MAKERS?

Proposition is Under Discussion in England—Disadvantages Seen in Large Number of Small Laboratories Required—Large Research Staffs Held to be Advisable

Points of great practical interest were raised at the last meeting of the British Oil and Colour Chemists' Association in the course of a paper and discussion on the monoazo dyestuffs suitable for the production of lake and pigment colors. One suggestion was that the modern tendency to concentrate the manufacture of dyes in the hands of one or two large corporations might hamper instead of stimulate progress, and that the preferable policy would be for gas companies and other concerns to carry their crude products on the intermediate stage, to place their own intermediates on the market, and thus to allow the pigment manufacturers to become real color makers instead of mere grinders in pan mills.

"There are advantages on both sides," says the "London Chemical Age." "If the dye industry in England is to become self-sufficient for our home and export needs, it is necessary that research, experiment, and manufacture should have really large resources behind them, and that the processes should be under a more or less central control. To ensure this, concentration and combination on a large scale are essential. The recognition of this fact explains the great dye organisations which Germany created before the war, and the organisation more recently in this country of great commercial concerns subsidised for the purpose of permanently establishing a home dyes industry.

"The fact that results of great national importance have already been attained by this policy of concentration need not blind anyone to the disadvantages in detail which accompany the gains. Our Free Trade traditions have given us a certain bias against monopolies, and there will always be advocates of the widest possible diffusion of research and technical effort against their concentration in the hands of a few. It is a debatable point whether the national and commercial interest is best served by a large number of producers of crude coal tar products who themselves carry out the process to the intermediate stage, in which case we should have dozens of small research staffs at work, or by a few very large concerns who buy these crude products from others and specialise in intermediates, in which case the necessary research and manufacture would be in the hands of one or two great staffs. There are advantages in each policy, and the great thing is to combine them.

"We do not want such a complete monopoly as will place any national industry at the mercy of a handful of people and possibly sterilise scientific and technical effort; nor, on the other hand, do we want to depend on a multitude of little laboratories working independently and exclusively with staffs unequal to the subject. The remedy will probably be found, not in the adoption of one principle to the complete exclusion of the other, but in our national genius for discovering a good working compromise."

In the case of the Roessler & Hasslacher Chemical Company, against the Raritan Lodge number 367, International Association of Machinists and others, the rule to show cause why the injunction should not be granted, restraining the striking machinists from picketing about plants, came up for a hearing before Vice Chancellor Backes, at Newark, last week. Because of the doubts that were presented by the affidavits, an injunction was not granted, and the hearing was continued until Dec. 23, at which time the case will come up for a final hearing and testimony will be taken.

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Trade Notes and Personals

J. W. Ackley, of Dana & Co., New York, has returned from Europe.

Robert W. McClellan, of London, England, vicepresident of the Foster-McClellan Company, manufacturing chemists, Buffalo, visited Buffalo recently on a business trip.

The Union of British South Africa imported drugs and chemicals valued at \$6,100,000 in 1918 and \$5,000,000 in 1917. Dyestuffs were valued at \$196,000 in 1918 and \$137,000 in 1917.

The Anti-Uric Company, San Francisco, Cal., has been granted permission to sell 5,000 shares of its capital stock for cash; and to issue 15,000 shares to C. J. Hubell & Sons in exchange for a business formerly conducted by them.

Greece imported the following products in 1916 and 1917: Chemicals valued at \$5,000,000 and \$2,000,000; dyes and tanning materials, \$115,000 and \$60,000. Exports included opium \$400,000 in 1917 and \$76,000 in 1918; sponges \$11,000 in 1917 and \$1,000 in 1918.

Allocation of four Shipping Board vessels to proceed in ballast to the West Coast of South America and load nitrate is announced. Ordinarily vessels going from North Atlantic ports to the West Coast carry coal to the Panama Canal, but there is no coal available at present.

Joseph Wander, president of S. Wander and Sons, Albany, N. Y., manufacturers of chemicals, purchased the brick buildings in Pleasant Street, from Broadway to North Pearl Street, which were sold at public auction on the court house steps last week. The purchase price was \$20,500.

Romanus Schuetz, for thirty-three years superintendent of the plant of Charles Pfizer & Co., manufacturing chemists, died on Friday at his home, 632 Greene Avenue, Brooklyn, in his sixty-seventh year. Mr. Schuetz was a member of the Board of Directors of the old German Hospital, now the Wyckoff Heights Hospital, of which he was one of the organizers, and was a member of the Arion Singing Society.

Imports at the port of San Francisco for the first week in December included the following: On the Jacox from Sydney to J. D. Spreckels & Bros. Co., 1,039 bags of gums, 148 cases of eucalyptus oil and 674 cases of nickel matte; on the Columbia, from Oriental ports, 100 cases of camphor and 485 cases of spices; on the Nanking, from Oriental ports, 64 cases of camphor and 290 cases of peanut oil; on the Tjisondari, from Batavia, Padang, Sourabaya and Manila, 1,333 bags of pepper, 50 cases quinine sulphate, 4,484 packages of tapioca flour and 15,412 bags of copra cake.

Postmaster General Burleson's annual report says in part: "From 1913 to 1919, the international parcel post service was extended from forty-seven to eighty-five countries or colonies. Agreements were effected during this period when thirteen countries or colonies, increasing the weight limit on parcels from eleven to twenty or twenty-two pounds. The dispatch or parcel post matter to foreign countries increased from 2,831,512 pounds in 1913 to 17,102,131 pounds in 1919. Every encouragement has been given to fast steamship lines carrying mails, and the service to Central and South American ports, and to Europe, has been expedited."

NEW DEPOSITS OF KAURI GUM DISCOVERED IN NEW ZEALAND

Representative of the Guaranty Trust Co. of New York Reports on Field Estimated to Contain Gum Valued at \$65,000,000—Found in Loose Particles in Swamp

Large deposits of kauri gum in New Zealand, which have hitherto been known hardly more than locally, have been reported to the Guaranty Trust Company of New York through its Australasian representative, Lionel H. Lehmaier. The deposits are in the swamp areas in the extreme northern tip of the North Island, not many miles from Auckland, the capital. Small local efforts have been made to extract from the deposits their valuable ingredients, but as yet no effort has been made to work them on a large scale. Kauri gum is the sap of the large trees of the pine family, which abound in New Zealand. It is useful in the manufacture of varnishes, paint, oils and turpentine, and is worth at the present time about \$1,000 per ton. Ordinarily the gum is obtained either through extraction or the distillation of the wood in which it comes. The great industrial value of the wood itself, and the extracting expense, make the gum costly.

The remarkable part of the present discovery consists in the fact that the gum is found in loose particles in the peaty soil which makes up the great stretches of swamp in North Island. Excavations in the swamp have established the fact that there is, submerged under its water-soaked surface, a great forest of kauri trees. The Maoris of the region have no tradition of a forest of this kind having existed in this part of the island, and so it must have grown many thousands of years ago, and have been submerged as a result of some severe seismic disturbance. Yet the timbers taken out by the prospectors proved to be in perfect condition, and were sent to a local sawmill and worked into lumber. One of the logs so recovered, according to photographs, was at least thirteen feet in diameter.

The small, local group which is attempting to capitalize the discovery has started a sawmill near Dargaville, which is the largest town in the immediate vicinity. They excavate and retort the peaty soil, and, according to the statement of one of the directors, have obtained up to seventy gallons of crude oil to the ton. Analysis of this oil shows it to be made up of about 15 per cent motor spirit, 15 per cent solvent oil, 30 per cent paint oil and 30 per cent varnishes, balance pitch. It is asserted that a few miles of pipe line would take the product to any of the small harbors along the coast.

The swamps at Paronga and Muriwhenua, near Dargaville, have an area of about 2,100 acres. Gum has been proved to exist to a depth of six feet. Experiments have been made with the wet concentration process, with the result that nine tons of soil gave one ton of chips. If the field were worked to a depth of only four feet, and the gum assayed only one ton to twenty tons of soil, the field in question would produce gum to the value of \$65,000,000. Even if the somewhat exuberant report of the investigators be discounted, it is obvious the swamp has an asset of considerable value.

The first cargo of tankage molasses to be taken to Portland, Ore., reached that port recently from Honolulu on the Falls of Clyde. The initial shipment will be used as a binder in preparing cattle feed from straw and ensilage.

The White Caps Company, of Manhattan, Nev., which conducts a large mine, is now paying more attention to the deposits of high-grade arsenic than to gold, finding the former more profitable.

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SAFETY COUNCIL SEEKS TO PREVENT SKIN DISEASES IN CHEMICAL INDUSTRY

Manufacturers Receive Questionnaire on Nature of Workers' Troubles with View of Controlling Them and Advising Method of Treatment—Chemical Burns of Special Interest

In an effort to obtain information concerning skin diseases to which workers in various industries are subject, especially those engaged in the manufacture of dyes, chemicals and drugs, the National Safety Council has sent to manufacturers a letter of inquiry, including a cuestionnaire and the following statement:

"It is becoming more and more in evidence that skin diseases of various types are prevalent among workers, and that in many instances these conditions result from the manufacturing procedures in which the worker is engaged. Very little information is available as to the frequency of these diseases, the industrial processes that produce them, the kinds and severity of the skin lesions, the methods of profitable treatment, the methods of protecting the workers gainst exposure, etc. For this reason a committee has been appointed by the Health Service Section of the National Safety Council to compile all obtainable information of this nature and to make such recommendations as appear to be helpful in the prevention and control of these industrial skin conditions.

"This committee will serve as a clearing house for the collection and dissemination of data on the best methods of preventing and controlling skin diseases, and the most satisfactory methods of treatment. Progress has been made in the control of skin conditions in many industries, that should be made available to all industry. It is apparent, therefore, that any assistance you can render this committee will re-act to your advantage.

"Under 'industrial dermatoses' the committee includes any noteworthy abnormality of the skin (hair or nails, etc.) that originated incident to industrial working conditions or was aggravated by such conditions. This will include such lesions as rashes, eruptions, and inflammatory processes, hypertrophies (thickening or hardening of the skin) from hard use, such as on the hands or on the lips, low grade chronic skin diseases from long exposure to peculiar light rays or from certain heat processes, skin diseases from constant friction or pressure, loss of hair, etc. Properly speaking most burns are likely to involve the skin, but inasmuch as the common types of burns from fire have been so well studied this committee will not include this particular skin lesion. Such burns as chemical burns, X-Ray or radium burns, etc., are however of especial interest. Three instances of industrial dermatoses are here related with the aim of calling to your mind other types of work which on your investigation or the investigation of the committee may yield helpful in-

"In industrial plants where wood is stained in imitation of mahogany, where certain color pigments and dyes are manufactured, in which analin oil or its derivatives are used or manufactured, workmen very often present a skin affection which has been attributed to the poisonous action of this chemical. In similar chemical manufacturing processes or in munition plants where various compounds are used such as picric acid, the skin of the forearms sometimes shows an eruption of small pimples with a bronzing and some drying or roughness of the skin.

"Among men working in tanneries, especially those handling the hides in the vate which contain the various chemicals, such as lime, acid, or dichromate, an eczema is often observed. This is found particularly on the arms and hands and often pus is formed beneath the skin. Sometimes small ulcers are formed."

NEW FREIGHT RATES TO THE FAR EAST (Special to Drug and Chemical Markets)

Washington, D. C., Dec. 16.—New freight rates between Atlantic and Gulf ports of the United States by direct steamers and Kobe and Yokohoma, Japan; Hongkong and Shanghai, China, and Manila, P. I., have just been announced by the Emergency Fleet Corporation for the United States Shipping Board. The general cargo rates are \$1.12 per one hundred pounds or 62½ cents per cubic foot, at ship's option. There are a number of exceptions to these general rates, however, including the following:

Acids, \$1.25 per cubic foot; anhydrous ammonia, \$1.25 per cubic foot; sulphate of ammonia, \$1.12 per hundredweight; carbon black, 62½ cents per cubic foot; rosin in barrels, \$1.35 per hundredweight; soda ash, \$1.30 per hundredweight; caustic soda, \$1.12 per hundredweight. Minimum bill of lading charge to direct ports of call, \$5; to trans-shipment ports, \$10. A rate of \$1 per hundredweight is announced on scouring powder, soap powder and washing powder, North Atlantic ports to United Kingdom ports.

RADIUM FOUND IN CANADA

A discovery of pitchblende, the ore of radium, was recently made in Butt Township, in the Nipissing district of Ontario, by a prospector searching for mica. An assay of samples by Ledoux & Co., of New York, showed the pitchblende to be rich in uranium, known as the parent of radium, having a uranium content of 63.60 per cent. Since the find there has been a rush of prospectors to the region, and a large number of claims have been staked.

The attention of investors has been attracted, and the question as to whether radium occurs in commercial quantities will, before long, be ascertained by actual development. The Mining Corporation of Canada, which operates several cobalt silver mines, has taken an option on seventy-four acres adjoining the discovery claim and will make a thorough exploration of the property. Other large transactions looking to the acquisition of claims by those in a position to develop them are pending.

MINERS USING THE LOW-GRADE CYANIDE

Tests have been made at the laboratory of the Haileybury (Ont.) Mining School of the low-grade cyanide manufactured by the American Cyanamid Co. at Niagara Falls, Ont., to ascertain whether it could be successfully employed in the treatment of the silver ore of cobalt. They have found it satisfactory, and the low grade cyanide is being increasingly used by the mining companies, replacing to some extent the imported high-grade article.

It is stated that the American Cyanamid Co. has recently succeeded in improving the grade of its product so as to meet the requirements of the gold mines, and some further tests will shortly be made with gold ore from the Porcupine mines.

Dr. Ellwood Hendrick, president of the Chemists' Club, New York, addressed a meeting in Carnegie Lecture Hall, Pittsburgh, recently on "Chemistry for Everyman." The meeting was held under the auspices of the Phi Lambda Upsilon Fraternity. Prior to the lecture, there was an informal dinner at the Lincoln Club.

H. D. Gibbs has resigned as chemist in charge of the color laboratory of the United States Bureau of Chemistry to accept a research position with E. I. du Pont de Nemours & Co., at their Jackson Laboratories, Wilmington, Del.

Financial Notes

Among the securities sold at the Auction Salesrooms last week were 70 shares of Bound Brook Chemical Corporation at \$80 for the lot; 75 shares Frank Hemingway, Inc., \$36 for the lot; 76 shares Frank Hemingway, Inc., \$36 for the lot; 4,000 shares Molybdenum Products Corporation, Series A, 1,000 shares, Series B, \$5 for the lot; letter assigning 5 per cent interest in royalties due under a contract between the Canadian Wood Molybdenite Co. and the Dominion Molybdenite Co., Ltd., \$50; \$4,026 claim of J. S. Barnett & Son, Inc., against Charles T. Stork & Co., or trustee-in bankruptcy of said company for goods sold and delivered, \$100.

Holders of Equitable Trust Company full paid receipts for purchase price of increased common capital stock of the United States Industrial Alcohol Company, who railed to exchange their receipts for stock certificates before Dec. 1, will receive the dividend payable Dec. 15, to common stockholders of record as of Dec. 1, upon surrender of the receipts to the Equitable Trust Company on and after Dec. 15, and delivery of the stock by the trust company.

The Northwest Yeast Co. has declared a quarterly dividend of 3 per cent on the common stock, and 3 per cent annual dividend on the preferred. The dividend on the common stock is payable Dec. 15 on stock of record Dec. 12, and the preferred dividend Jan. 2 cn stock of record Dec. 16.

The Royal Baking Powder Co. has declared a 2 per cent dividend and 2 per cent extra dividend payable Dec. 31 on stock of record Dec. 15. Also a quarterly dividend of 1½ per cent on the preferred stock payable on the same date.

The Barrett Co. has declared a quarterly dividend of \$2 on the common stock payable Jan. 2 on stock of record Dec. 18, and a quarterly dividend of \$1.75 on the preferred payable Jan. 15 on stock of record Dec. 30.

American Agricultural Chemical Co. has declared a quarterly dividend of 2 per cent on the common stock and 1½ per cent on the preferred, payable Jan. 15 on stock of record Dec. 22.

The Air Reduction Co. has declared a quarterly dividend of \$1, payable Jan. 15 on stock of record Dec. 31.

NITROGEN COMPANY OFFERS STOCK

The American Nitrogen Products Company is offering \$100,000 of its cumulative, participating, non-redeemable 7 per cent preferred stock, with a par value of \$100 a share and exempt from normal Federal income tax. The stock is being offered direct by the company at par with the privilege of arranging for subscriptions on the installment payment plan. This offering is a part of an authorized issue of \$9,250,000, and is for the purpose of adding to present equipment and increasing the capacity of the nitric acid factory of the company.

The American Nitrogen Products Company is a State of Washington corporation engaged in the manufacture of nitrogen products from the air and at present is operating two plants, one producing nitrite of soda and the other nitric acid. The company owns and controls, for the entire Western Hemisphere, valuable patents for the processes of fixation of nitrogen under patents granted by the United States and Canada.

Samuel M. Moneypenny, who was with the National Aniline and Chemical Co. for many years, is now associated with H. J. Baker & Bro.

QUOTATIONS ON CHEMICAL STOCKS

| Bid | Asked | Bid | Asked |
|---|------------|---------------------------------|--------|
| Aetna Expl 81/2 | 9 | H'k Electro 70 | 75 |
| Aetna Expl., pf 67 | 68 | H'k Elec., pf 65 | 75 |
| Air Reduction 52 | 53 | Heyden Chem 7 | 8 |
| *Am. Ag. Ch 91 | 93 | *Int. Agricul 20 | 22 |
| *Am. Ag., Ch., pf 961/2 | 97 | *Int. Agricult., pf 80 | 81 |
| Am. Chicle 90 | 96 | *Int. Nickel 221/2 | 23 |
| *Am. Chicle, pf 82 | 85 | *Int. Nickel, pf 90 | 93 |
| *Am, Cot. Oil 48 | 49 | *Int. Salt 65 | 68 |
| *Am. Cot. Oil, pf 88 | 93 | K. Solvay 80 | 110 |
| Am. Cyan 30 | 35 | *Mathieson Aik 381/2 | 40 |
| Am. Cyan., pf 55 | 6G | Merck & Co., pf 96 | 100 |
| *Am. Druggists S 11 | 111/2 | Merrimac 92 | 94 |
| Amer. Glue 40 | 45 | Mulford Co 55 | 60 |
| Amer. Glue, pf 65 | 70 | Mutual Co150 | |
| *Am. Linseed 68 | 69 | *Nat. A. & C 64 | 65 |
| *Am. Linseed, pf 93 | 96 | *Nt. A. & C., pf 89 | 891/4 |
| *Am. Malt 471/2 | 48 | National Lead 81 | 811/2 |
| Amer. Zinc 161/2 | 17 | National Lead, pf108 | 110 |
| Amer. Zinc, pf 52 | 56 | N. J. Zinc250 | 255 |
| Atlas Powder150 | 160 | Niag. A., pf 96 | 100 |
| Atlas Powd., pf 88 | 91 | Parke, Davis & Co.128 | 130 |
| *Barrett Co119 | 120 | Penn. Salt 78 | 78% |
| *Barrett Co., pf113 | 114 | Procter & Gamble676 | 695 |
| | 8 | Procter & Gam., pf101 | 10134 |
| British Am. Chem 7½ Butterworth-Jud 33 | 35 | Rollin Ch 50 | 60 |
| | 117 | Rol. Ch. pf 80 | 90 |
| By. Prod. Co112 Carborundum135 | 1351/4 | Royal Baking Po140 | 150 |
| | 116 | Royal Bak. Po., pf. 95 | 97 |
| Carborundum, pf1151/ | 45 | Semet S160 | 175 |
| Casein Co 40 | 145 | Sherwin-Williams520 | 540 |
| Celluloid Co135 | | Solv. Proc190 | |
| Celluloid, pf | . 08 | | 100 |
| Corn Products 84 | 85 | Stand. Ch 90 Swan & Finch115 | 120 |
| Corn Products, pf1061/2 | 107 | Tenn. C. & Chem. 10 | 101/2 |
| Davison Chem 32 | 231/2 | Tex. Gulf, Sul 1534 | 1514 |
| Dow Chem175 | 200 103 | Union Carbide 761/2 | 78 |
| Dow Ch., pf | 390 | Union Sulphur | |
| Du Pont | | | 142 |
| Du Pont, debs., pf 921/2 | 93 | | 52 |
| Du Pont, C., pf 9 | 10 | *Un. Drug 1st pf 511/2 | 61 |
| Freeport, Tex., Sul. 37 | 38 | *Un, Dyewood 50 | |
| Freept, Tex. Sul., pf. 91 | 93 | Un. Dyewood, pf 90 | 96 |
| *Gen. Chem185 | 200 | U. S. Gypsum | 1027/ |
| *Gen. Chem., pf100 | 103 | *U. S. Indus. Alco. 103 | 1031/2 |
| Grasselli | 170 | U. S. Indus. Al., pf.100 | 105 |
| Grasselli, pf 99 | 101 | VaCar. Chem 65 | 65% |
| Hercules Powder227 | 233 | *VaCar. Ch pf112 | 115 |
| Hercules, Powd., pf.107 | 110 | V. Vivaudou 22 | 221/2 |

BONDS

| | * | DONDS | |
|-------|----------|---|-------|
| | | Bid | Asked |
| *Am. | Agricul, | Chem., 1st conv. 5s, 1928 97 | 99 |
| *Am. | Agricul. | Chem., conv. deb. 5s, 1924100 | 101 |
| *Am. | Cotton (| Oil deb. 5s, 1931 88 | 89 |
| *Int. | Agricul. | Corp., 1st Mort. & Col. tr. 5s 1932 831/2 | 85 |
| *Va. | Carolina | Chem., 1st Mort. 5s, 1923 941/2 | 95 |
| "Va. | Carolina | Chem., conv. deb. 5s, 1924102 | 104 |
| | | *Listed on New York Stock Exchange | |

GENERAL CHEMICAL CO. IN \$2,000,000 DEAL

The General Chemical Co., 25 Broad Street, New York, has purchased the Western Chemical Co., of Denver, Col. The capitalization of the Western Chemical Co. is \$2,000,000. The purpose of the General Chemical Co. is to broaden its field of operations. Heavy freight charges on long hauls will be eliminated. The plants of the General Chemical Co. are located at the following points:

Baltimore, Md.; Bay Point, Cal.; Bayonne, N. J.; Buffalo, N. Y.; Chicago, Ill.; Camden, N. J.; Chicago Heights, Ill.; Claymont, Del.; Cleveland, Ohio; East St. Louis, Ill.; Easton, Pa.; Edgewater, N. J.; Laurel Hill, N. Y.; Newell, Pa.; Passaic, N. J., and Pulaski, Va. The addition of the Denver plant will afford facilities for covering a new territory.

At the offices of the General Chemical Co., 25 Broad Street, it was stated by a representative of the company that only a basis of settlement had been reached at this time. Auditors are at work on the books of the Western Chemical Co., but in all probability it will be a week or more before a settlement will be reached. The company will not be in a position to give any figures until the auditors have completed their investigation.

Norman Peterkin, formerly of the sales staff of the General Chemical Co., is now located with the United Piece Dye Works at Lodi, N. J., as purchasing agent.

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The Drug and Chemical Market

Current Spot Quotations of Pharmaceuticals, Page 28; Crude Drugs, Pages 30-32; Essential Oils, Page 34

CRUDE DRUGS STILL ADVANCING

Demand Continues and Many Products are Off the Market—Denatured Alcohol, Ergot, and the Mercurials Higher—Cloves, Citric Acid, and Bismuth Salts are Lower

PRICE CHANGES IN NEW YORK (Stocks in First Hands) Advanced

Add Oxalic, 7c lb.
Alcohol, Denatured, 5c gal.
Aconite Root, 10c lb.
Camphor, Monobrom, 15c lb.
Camphor, Monobrom, 15c lb.
Capsicum, Afr. pods, 1c lb.
Callilies, Mombasa, 2c lb.
Cramp Bark, true, 5c lb.
Echinacea Root 5c lb.
Ergot, 25c lb.
Gelstemium Root, 3c lb.
Glycerin, C. P., 1c lb.
Glycerin, C. P., 1c lb.
Gloden Seal Root, Powd., 15c lb.
Guarana, 20c lb.
Hexamethylene, 10c lb.
Wormseed,
Wormseed,
American, 5c lb.
Declined

Loricar Bervies, 1c lb.
Lobelia Herb, 15c lb.
Lycopodlum, 10c lb.
Mercurials—
Pisulphate, 9c lb.
Evisuphate, 9c lb.
Calomel, 9c lb.
Calomel, 9c lb.
Calomel, 9c lb.
White Precip., 19c lb.
With Chalk, 4c lb.
Nutmegs, 2c lb.
Sage, Greek, 5c lb.
Sage, Greek, 5c lb.
Senega Root, 15c lb.
Unicorn Root, true, 30c lb.
Lycopodlum, 10c lb.
Lyc

Acid Citric, 3c fb.
Bismuth Salts, 10c fb.
Caraway Seed, Afr., ½c fb.
Cloves, Zan., 2c fb.
Collodion, U.S.P., 5c fb.
Ginger, Jap., ½c fb.
Grains Paradige, 5c fb.
Haarlem Oil, Dom., 50c fb.
Licorice Mass, 4c fb.
*Second Hands

Juniper Berries, 1c fb.
Mastle Gum, 10c fb.
Mastle Gum, 10c fb.
Mustard Seed, Eng. Yel., ½c fb
Pepper, Black Sing., ½c fb.
White Sing., 1½c fb.
*Qulnine, \$c oz.
Savory, ½c fb.
Uva Ursi, 1c fb.
Valerian Rt., Belg., \$c fb.

Trend of the Market

| | Today | Last Week | Month | Year |
|--------------------|-------|--------------|-------|-------|
| Acid Salicylic | \$.53 | \$.53 | \$.48 | \$.93 |
| Calomel | 1.68 | 1.59 | 1.59 | 2.00 |
| Camphor, Jap., ref | 3.60 | 3.60 | 3.45 | 4.00 |
| Glycerin, C.P. | .23 | .22 | .21 | .60 |
| Menthol | 13.25 | 13.25 | 9.75 | 7.00 |
| Opfum, Gum | 6.75 | 6.75 | 7.00 | 22.50 |
| *Quinine Sulphate | 1.10 | 1.15 | 1.35 | 1.00 |
| Cantharides, Russ | 4.00 | 4.00 | 3.50 | 4.00 |
| Ergot, Spanish | 4.75 | 4.50 | 4.00 | 1.95 |
| Buchu. Short | | 2.45 | 2.25 | 2.55 |
| Ipecac, Cartagena | | 3.20 | 3.00 | 4.25 |
| Rhubarb, H. D. | None | None | 1.85 | .79 |
| Cloves, Zanzibar | .53 | .55 | .53 | .47 |

A tendency of business to slow down in anticipation of the approaching holiday period is already noticeable among the drugs and fine chemicals. General trading has lost much of its snap during the past few days, and it is not expected that a great deal more active buying will take place until after the first of the year. Routine business for the past week has been confined principally to small lot purchases for immediate requirements. There have been quite a number of important price reductions, but the large majority of revisions continue to be upward. Short stocks, particularly among many of the crude drugs, are still causing the greatest difficulty to consumers, while prices lend little encouragement in securing supplies.

The leading price movements this week include advances in denatured alcohol, monobromated camphor, oxalic acid, silver label gelatin, ergot, hexamethylene, insect powder and the mercurials. Lobelia herb, aconite root, asafetida, true cramp bark, senega root, American wormseed, golden seal and Chinese cantharides are higher. Manufacturers have reduced citric acid and bismuth salts. Cloves are easy and lower. Licorice mass, gum

mastic, peppers, haarlem oil and caraway seed have de-

Fine Chemicals

Acid, Citric—There is somewhat of an easier tone in citric acid in spite of the fact that some second hands maintain that the price is higher at 90c. Manufacturers have just reduced their quotations to 87c a pound for crystals in barrels and 88c for powdered. For second hand material 88c can be done.

Acid, Oxalic—Spot supplies have become run down, and an active demand has sent the price up on finding stocks scarce. For crystals in barrels, 32c@35c a pound as to seller and quantity is the range at present. This week 120 casks came in from Rotterdam.

Alcohol—Owing to the continued difficulty in obtaining plentiful supplies of denaturing materials and their high price, manufacturers have again advanced the price for denatured alcohol. Demand is active at the new figures, 71c@73c for 180-degree proof and 73c @75c per gallon for the 188-proof. Wood alcohol is very strong, with prices unchanged and stocks scarce.

Bismuth Salts—Manufacturers announced a decline of ten cents per pound in all bismuth salts last week following an easier price of the metal. The new price basis gives the subnitrate at \$2.90 a pound and other products correspondingly lower.

Camphor—There has been little or no activity in camphor this week. Importers continue to quote \$3.60 @\$3.65 for Japanese slabs. American refiners are doing a nominal business for regular trade at \$3.30 a pound, but real deliveries will not begin before late next month or early in February. Manufacturers have just advanced the price of monobromæted camphor to \$5.05 a pound for fifty-pound lots.

Glycerin—The coal situation and scarcity of crudes has led refiners to again advance their quotations for C. P. glycerin. Drums are now named at 23c per pound, although 22½c and even 22c can still be done in second hands. Cans are named at 24c a pound. Dynamite is steady at 21½c@22c a pound in drums. Buying demand is reported to be quite active.

Haarlem Oil—Competition and improvement in the supplies of the domestic product have weakened the price. Down to \$3.50 per gross can be done, but \$3.75 (\$\\$4.00 is mostly quoted. Imported is steady without change at \$5.50.

Hexamethylene—The tight position of wood alcohol and formaldehyde has produced a shortage in hexamethylene. The price has been moved up by sellers and is now named at \$1.30@\$1.35 a pound.

Licorice Mass—Large arrivals, and demand only routine, have sent the price of licorice mass still lower. Dealers are quoting 54c@55c a pound, and this can be shaded without any great difficulty.

Lycopodium—There is practically no lycopodium powder to be had on this market. A few odd jobbing lots have been sold as high as \$2.25, and the price is generally conceded to be \$2.10 for a quantity if available.

Menthol—The market has shown no change during the week and has been unusually inactive for menthol. The price still hovers in the neighborhood of \$13.25 a pound duty paid, but from the volume of buying which is going on, is apparently not very attractive to

consumers at this level. There seems to be a general fear among buyers to touch menthol in any way, either on speculation or for legitimate consuming needs. Manufacturers are stretching stocks in every way possible to avoid entering the market at this time.

Mercurials—The recent sharp advances in quicksilver were followed last week by corresponding advances in the mercurials. The new prices are quoted on a basis of \$1.68 per pound for calomel in fifty-pound lots.

Quinine—The second hand situation here is still rather easy, with speculative interest very quiet. For spot Java sulphate, \$1.10 per ounce can be done, with 95c named for shipment next month from Java. The London market is reported very firm. Last week 22 cases totaled the imports here. Manufacturers quote 90c per ounce in hundreds without offer and are still unable to take care of anything like their full quota of business.

Crude Drugs

Aconite Root—Supplies on the spot have been greatly reduced, and all the lots which are left have been advanced by holders to 90c a pound for U. S. P. stuff.

Asafetida—A firmer condition is noted in the case of gum asafetida, owing to a temporary reduction in the size of spot stocks. Whole lump is named at \$3.40 @\$3.50 a pound, while the powdered is still scarce at \$5.00@\$5.25.

Cantharides—There is practically nothing to be had in the way of Russian cantharides. The Chinese has advanced sharply on the active demand and the deep inroads which are being made into remaining stocks. For whole Chinese, the price is now \$1.40@\$1.45 a pound and for the powdered \$1.55.

Capsicum—An advance in the price of African pods has been noted. The price is now 17c@18c a pound.

Chillies-Mombasa chillies are higher at 18c@19c a tound.

Cloves—A recent importation of 2,762 bales of Zanzibar cloves from Durban has weakened the market here considerably and given rise to several rumors regarding the size of stocks in primary markets. The belief seems prevalent that there are good sized stocks which are being held back and that the present price here is solely the outcome of speculation. On the spot, 52½c@53c a pound is quoted. Amboynas are quiet at 54½c@55c.

Cramp Bark—True bark is becoming scarcer, and the price has again been jumped upward to 50c@55c a pound.

Ergot—Spot stocks have dwindled materially and although it is believed that there is more in Spain than shippers will admit, little is coming here. The price is higher and firm at \$4.75 a pound inside.

Golden Seal Root—The price is higher here on renewed activity. Whole is steady at \$6.00@\$6.10, while the powdered is active at \$6.50@\$6.75 a pound.

Insect Powder—The acute scarcity continues, and quotations are practically nominal except where holders are known. The last sales which have gone through here have brought as high as \$1.00 a pound. One holder is still taking care of his regular trade in a small way at 90c per pound. The outlook for new supplies is not very encouraging.

Lobelia Herb—The supplies on the spot have been almost cleaned out, and such remaining lots as are to be had here are being quoted at a sharp advance. Nothing is available under 75c and some are asking 80c per pound.

Mastic Gum—Owing to good arrivals and a replenishment of stocks here, the price has taken a drop. Quotations are now being made at \$1.00@\$1.05 per pound.

Peppers—Both white and black Singapore peppers are lower. For the former, 28½c@29c a pound is ruling, while the black has declined slightly to 17½c@18c.

Sage—Small lots of Greek sage have sold at 20c during the week. Some Spanish is now available at 15c @16c a pound. Good supplies are en route to this market

Senega Root—There has been little improvement in supplies, and the price is higher at \$2.05@\$2.25 a pound according to seller. A \$3.00 market is predicted.

Wormseed—American wormseed is higher on the active demand at 35c@40c a pound. Levant is very scarce at \$1.25.

FUNDS FOR DRUG INVESTIGATIONS

(Special to DRUG AND CHEMICAL MARKETS)

Washington, D. C., Dec. 16.—Large sums of money are to be expended by the various Government departments during the fiscal year beginning July 1, next, in various investigations in drug and chemical lines, according to estimates which have just been submitted to Congress.

The Bureau of Internal Revenue of the Treasury Department estimates that \$750,000 will be required for expenses in enforcing the provisions of the act to restrict the sale of opium. This sum is the same as was appropriated for that purpose during the current freed year.

It will cost \$605,081 to enforce the law prohibiting misbranding of drugs and foods, according to the estimate of the Bureau of Chemistry of the Department of Agriculture, which also asks for \$25,000 for the investigation and development of methods of manufacturing insecticides and fungicides, and for investigating chemical problems relating to the composition, action and application thereof.

The Bureau of Animal and Plant Industry asks for \$77,020 for the investigation of drug, medicinal, poisonous and other plants and plant industries, in co-operation with other branches of the Department of Agriculture, State experiment stations and others interested in such matters. This Bureau also expects that its investigations of diseases of drugs and related plants and other crops will cost \$108,900, and asks also for \$59,820 for the investigation, testing and improvement of plants yielding drugs, spices, poisons, oils and related products and by-products.

Fifteen thousand dollars will be required by the Bureau of Standards of the Department of Commerce for its work in the development of color standards and methods of manufacturing and of color measurement, with special reference to their industrial use in the standardization and specification of colorants such as dyestuffs, inks, textiles and other products.

The Department of Agriculture is also interested in this work, and has asked for \$99,280 for investigation and experiment in the utilization for coloring purposes of raw materials grown or produced in the United States.

The Vino Medical Co., through George W. Olvany, has brought suit to restrain E. Morando and Peter Gallipole from breaking locks and forcibly entering the premises at 200 West Houston Street. The Vino company says the defendants threaten to oust the company by force, and have already damaged the premises estimated at \$1,000.

The Essential Oil Market

Current Spot Quotations of Essential Oils and Aromatic Chemicals, Page 34

ACTIVE BUYING IN ESSENTIAL OILS

Oil of Cubebs, Peppermint, Citronella, Oil of Cedar Wood, and Oil of Orange are Firmer—Advances are Noted in Wormwood Oil, Eucalyptus, Tansy, and Lavender Oil

PRICE CHANGES IN NEW YORK (Stocks in First Hands) Advanced

Oil Peach Kernel, 3c tb.
Oil Cubebs, 25c tb.
Oil Eucalyptus, 5c tb.
Oil Lavender Flowers, 25c tb.

Oil Sassafras, Artif., 5c tb. Oil Tansy, \$1.50 tb. Oil Wormwood, \$2 tb. Heliotropin, 25c tb.

Declined
Oil Cajuput, Native, 5c fb.

Trend of the Market

| | Today | · Last Week | Month | Year |
|------------------------|--------|----------------|--------|--------|
| Oil Bergamot | \$5.00 | \$5.00 | \$4.60 | \$7.58 |
| Oil Citronella, Ceylon | .65 | .65 | .53 | .51 |
| Oil Cloves | 3.90 | 3.90 | 3.50 | 3.25 |
| Oil Lavender Flowers | 10.25 | 10.25 | 9.25 | 6.00 |
| Oil Lemon | 1.40 | 1.40 | 1.20 | 1.55 |
| Oil Peppermint | 8.00 | 8.00 | 7.75 | 5.30 |
| Oil Sandalwood E. I | 10.50 | 10.50 | 10.50 | 13.55 |
| Oil Sassafras, Artif | .85 | .85 | .75 | .86 |
| Benzaldehyde, U.S.P | 1.50 | 1.50 | 1.25 | 5.60 |
| Coumarin | 8.25 | 8.25 | 8.00 | 21.00 |
| Eucalyptol | 1.50 | 1.50 | 1.40 | 1.25 |
| Methyl Salicylate | | .75 | .60 | 1.00 |
| Vanillin | 1.00 | 1.00 | .77 | .93 |
| Thymol | 11.00 | 11.00 | 7.25 | 13.50 |
| Menthol | 40.00 | 13.25 | 9.75 | 7.00 |
| | | | | |

In spite of the almost prohibitive levels to which essential oil prices are mounting, buying is reported to be continuing briskly. The great portion of the products which are being taken up is passing directly into consuming channels. At the same time, there is no doubt but that consumer stocks are greatly reduced, and present purchases are to take care of such immediate requirements as are absolutely necessary. The outlook for improvement in supplies here is not altogether encouraging, with both domestic and foreign primary markets reporting short crops of numerous items. A wider variation in prices among leading dealers is becoming very marked as the general level of quotations advances.

Higher prices are noted this week in peach kernels and eucalyptus oils. Wormwood oil is sharply higher in several quarters. Tansy has moved upward. Wide differences are noted in prices for lavender oil, one dealer quoting at a sharp advance. Oil of cubebs is firmer. Peppermint, both natural and U. S. P., is maintained strongly. Citronella is in a very firm position although quotably unchanged. Oil of cedar wood is extremely scarce and firmer. Orange, spearmint, cloves and wormseed hold steady and strong at recent advances. Safrol continues very scarce.

Essential Oils

Oil Almond—U. S. P. oil of bitter almonds is reported to be in steady routine demand at \$9.25@\$9.75 per pound according to seller. For bitter oil free from prussic acid, up to \$10.00 a pound is being asked by one seller. The general run of quotations, however, is about \$9.50. Artificial oil of almonds (benzaldehyde) U. S. P., is firm all the way from \$1.25 per pound up to \$2.00, as to quantity and holder. Peach kernel oil is stronger at 45c a pound inside, up to 48c and 50c being asked. The sweet oil is unchanged and quiet at 95c@\$1.00.

Oil Anise—Any figure from \$1.50 up to \$1.75 a pound is being named as the market here for U. S. P. anise oil. Most quotations are in the neighborhood of \$1.60. Importations this week total 25 cases from Tientsin.

Oil Bay—The price is firm at \$5.00 in importers' hands, although a broker reports that he can do \$4.75. As high as \$5.25 is heard. Stocks are limited, but demand has quieted down somewhat. On heavy importation of bay rum last week, the price dropped to \$3.20 per gallon here.

Oil Bergamot—No new developments are reported in bergamot. Importers are firm in their ideas of price at \$5.00, although \$4.90 can be done. All the Messina essences are stronger in primary markets, and higher costs here are predicted as the result of advanced quotations for future deliveries. For small lots on the spot \$5.25 is being asked.

Oil Bois de Rose—Although general quotations give \$10.00 per pound with little or nothing available, one house quotes their price as \$9.00.

Oil Cajuput—The native oil is quiet at 85c a pound with some sellers quoting up to 90c. U. S. P. is steady without change at \$1.00@\$1.25.

Oil Cassia—For technical oil of cassia, \$2.35 a pound is the best figure, with most holders asking \$2.40. Up to \$2.55 a pound is quoted for lead free oil, although down to \$2.45 is possible to do. The redistilled is firm at any figure up to \$3.00 a pound, \$2.85 being most generally asked.

Oil Cedar—Oil of the wood is very scarce, and the price is stronger at 30c@32c a pound for spot goods. Little is to be had from the factories. Cedar leaf oil holds steady with a routine demand on the limited supplies which are held without change at \$2.40@\$2.50 a pound.

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Oil Citronella—An active demand for Ceylon citronella oil continues to hold the price firm at the recent advances. Stocks on the spot have become notably run down, although an importation of about 90 drums has been noted this week. The best figure for spot oil in drums is 65c a pound with correspondingly higher figures for small lots. Java oil is quiet and unchanged at 90c@95c a pound.

Oil Cloves—Brokers are naming \$3.60@\$3.70 a pound for oil of cloves. Leading essential oil houses here name \$3.90 a pound as inside for oil in cans. Demand is of a steady conservative character. Just what effect the recent importation of 2,700 bales of cloves and a considerably lower spot price for the spice will have on the oil is difficult to say at this time. An easier price should follow.

Oil Cubebs—In view of the small supplies of the raw material, oil of cubebs shows a firmer tendency, several houses advancing prices since the last report. The best figure heard here is \$9.00 a pound for U. S. P. oil, while some sellers are asking \$9.50 and up to \$9.75 a pound. For jobbing quantities \$10.00 and higher is quoted.

Oil Eucalyptus—Inside on the spot seems to be \$1.00 a pound for U. S. P. oil. Supplies continue exceptionally scarce with mostly a small lot business passing. As high as \$1.10 a pound is quoted, as prices show a tendency to creep upward.

Oil Juniper Berries—While from one quarter it is reported that oil of juniper berries is easier and the price lower, other sellers are maintaining their prices firmly at the old levels. For rectified oil, \$7.00 a pound can be done and beaten, it is reported. At the same time, leading houses quote \$8.00 and up. For twice rectified, any figure from \$8.00 a pound up to \$10.00 is within the market range.

Oil Lavender—Some houses are still disposing of their remaining small stocks at \$10.00 a pound. Others are quoting as high as \$11.00 for their U. S. P. goods. Quotations are generally firmly maintained in view of the continued reduced supply on the spot. Spike oil is in demand, but little is available at the market figure of \$2.00.

Oil Lemon—Down as low as \$1.35 for U. S. P. oil of lemon is still available in this market. Importers are naming up to \$1.50. Producers have altered their views very little as to higher prices, and quotations for forward delivery are commanding an advance. Present consumption is routine, but with the advancing season and increased demand, it is believed that the price will tend upward. The general tone of the market in New York at present is firm. Importations this week totaled 120 cases from Messina.

Oil Orange—Although the strong market for the orange oils is stiffly maintained, prices have remained stationary this week. For bitter oil, \$3.50@\$4.00 a pound is quoted, while West Indian sweet oil is named at \$3.75@\$3.80. Italian sweet oil is also unchanged at \$4.25@\$4.75 a pound as to seller. Importations this week totaled 117 cases of West Indian and 42 cases of bitter oil.

Oil Peppermint—Prices for oil of peppermint on the spot are firmly maintained with a higher quotation heard from one leading house. The general level of such routine, hand-to-mouth buying as is reported here holds at about \$8.00 for natural oil with \$8.25 asked in one quarter. U. S. P. oil is apparently held at \$8.75 inside, although 1,000 pounds were sold by an overstocked producer last week at \$7.80. Restricted quantities of oil only are moving into consuming channels and will evidently continue as long as present prices hold out.

Oil Tansy—Scarcity here has induced two dealers to jump their quotations to \$6.00 and \$7.00@\$8.00 a pound respectively.

Oil Wormwood—Practical depletion of supplies is responsible for a sharp advance in the price by holders. Inside seems to be \$12.00 a pound with greatest difficulty in finding the goods.

Aromatic Chemicals

Eucalyptol—According to the dealer, quotations on eucalyptol vary between \$1.40 and \$1.60 a pound. The \$1.40 price is the lowest heard for several weeks. Supplies are still very small. An advance in the price of the oil has just been noted.

Heliotropin—This item is slightly stronger at \$4.00 @\$4.50 a pound.

Menthol—There has been no development in the menthol situation this week, the market being practically "dead." The price is unchanged at about \$12.65 a pound in bond as near as can be determined with some business passing at \$13.25 for goods released. Buyers continue to hold aloof awaiting a real definite turn in the price one way or the other. Japan quotes \$14.00 a pound c. i. f. New York in recent cables, but are not finding ready buyers here at this figure.

Thymol—The price is very firm but unchanged this week. Quotations name \$11.00@\$11.50 a pound.

Essential Oil Notes

The sharp advance in lemon oil last week is said to have had its origin in the fact that three or four Sicilian exporters found it necessary to cover spot and future deliveries. Efforts to squeeze these exporters caused prices to jump and encouraged speculation. The advance in sweet orange oil is attributed to small stocks of the oil, It is believed that the bitter oil supply will be entirely inadequate to meet the demand.

The legislative council of Seychelles, a British island in the Indian Ocean off the East coast of Africa, has passed an act that no one, whether a planter or trader, will be allowed to deal in essential oils, vanilla, cinnamon bark or other local products without previously obtaining a license. The law is to prevent thefts by natives, the plantations having suffered severely.

Alfred Joensson, Inc., 100 John Street, an organization recently incorporated with a capital of \$1,000,000 for the purpose of dealing in crude drugs, spices, essential oils, etc., has taken over the firm of H. J. Macbeth, Inc., of this city.

The manufacturing and selling of chemicals, perfumery, fats, oils and soaps will be undertaken by the Paterson Brewing and Malting Company, of Paterson, N. J., which has filed a certificate in New Jersey.

Ceylon imports in 1917 and 1918 included acids valued at \$127,800 and \$279,600; candles \$152,400 and \$61,500; perfumery \$75,500 and \$80,000; soap \$164,000 and \$189,900; fertilizers \$1,600,000 and \$2,104,000.

FLAVORING EXTRACT REGULATIONS

Regulations governing the manufacture and sale of preparations containing non-beverage alcohol will be issued early in January. A conference of members of the Flavoring Extract Manufacturers' Association and Prohibition Commissioner John F. Kramer and officials of the Bureau of Internal Revenue was held recently in Washington to discuss details. It is understood that no limit will be placed on the size of containers, owing to the fact that hotels and other large interests buy in quantities.

Richard H. Bond, chairman of the Legislative Committee of the Flavoring Extract Manufacturers' Association, said it was the evident intent of Congress as shown by the language of the act, that such products should be unfit for beverage purposes by the normal man. He did not know, he said, of a single case from his own experience of the use of flavoring extracts for intoxicating beverage purposes, but doubtless such preparations were used by men of abnormal appetites. In the drafting of regulations he asked that, first consideration be given the public, which depends upon flavoring extracts as now manufactured.

J. G. Caffrey, of the Prohibition Commissioner's office, said the attitude of the Government on the question who would be held responsible for the sale of non-beverage alcohol for other than non-beverage purposes would be in effect that the retailer and not the manufacturer would be called to account. Commissioner Kramer warned manufacturers not to forget their responsibilities under the law, and said that the sale by manufacturers of flavoring extracts or syrups under circumstances from which the seller might reasonably deduce that they were being used for beverages, would be followed by quick action by the Department.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, Pages 34 and 36

CAUSTIC SODA FOR 1920 HIGHER

Bichromate of Soda Under Heavy Speculation During the Week—Bleaching Powder Price Tending Upward—Sulphuric Acid in Strong Demand—Ammonia Water Higher

PRICE CHANGES IN NEW YORK (Stocks in First Hands) Advanced

Aqua Ammonia, 134c lb.
Ammonium Sulphate, 50c lb.
Ammon. Muriate, White, 14/c lb.
Caustic Soda, Domestic, 70c per
Barium Chloride, Imp., \$10 a ton
Bleaching Powd. Exp., 35c@50c Permanganate of Potash, Com'1

Sodium Sulphide, 1c lb.

Declined No Declines

Trend of the Market

| Today | Week | Month | Year |
|-------|--|---|--|
| | | | \$.191/2 |
| 20.00 | | | 28.00 |
| 2.75 | 2.50 | | 2.75 |
| 8.00 | 8.25 | 8.25 | 9.50 |
| | .30 | .28 | .74 |
| | .1334 | .1314 | .27 |
| | 2.00 | 2.00 | 2.50 |
| 4.20 | 3.61 | 3.30 | 4.30 |
| | 281/2 | .26 | .45 |
| | \$.12¾ 20.00 2.75 8.00 .30 .13¾ 2.00 4.20 | Today \$1234 20.00 20 00 2.75 2.50 8.00 8.25 .30 .30 .1334 .1334 2.00 2.00 4.20 3.61 | Today Week Month \$1234 \$1234 \$1234 20.00 \$2.00 \$18.00 2.75 \$2.50 \$2.25 .30 .30 .28 .1334 \$1.334 \$1.334 2.00 \$2.00 \$2.00 4.21 \$3.61 \$3.39 |

Sales are greatly restricted, because of the lack of supplies. Caustic soda for 1920 delivery is higher. The demand is very heavy, and offerings are extremely scarce on spot or early futures. Bleaching powder is higher for export, There was heavy speculation in bichromate of soda. At the close the market had quieted down. Alums are higher. Aqua ammonia has been advanced on account of stringency. Ammonium sulphate is higher, and considerable interest is manifested on quotations over the latter part of 1920. Barium chloride is up, especially the imported. Bichromate of potash is higher and under steady inquiry. Japanese chlorate has been offered at a low figure delivered at this port. Domestic chlorate is steady. Prussiates are slightly firmer, although red is being offered more freely. Permanganate is higher.

Acids are unchanged. Sulphuric is in strong demand. Muriatic is easier.

Sulphide of sodium is higher, owing to increased cost of production.

Acid, Acetic—Requirements for domestic consumption continue heavy, and export business, especially in the Italian market, is stronger. The supply appears to be in keeping with the demand, although some holders have limited supplies. Glacial is \$12.50 per hundred barrels inclusive; 80 p. c. pure is held at 9½c; redistilled at 8½c, and commercial at 8c. The above prices include containers.

Acid, Muriatic—Tank car rate on 100 lbs. is \$1.50 on 20-degree acid, but a higher price is quoted by some holders. The demand continues strong for domestic consumption, with the supply somewhat stringent. From \$1.65@\$1.75 is quoted on carboys.

Acid, Sulphuric—Depletion of stocks holds this market in a very firm position. The demand for next year is very large, and the supply is not in keeping with the requirements. Production is sold ahead. The 60 degree acid is unchanged at \$16.00; 66-degree is \$19.00 @\$22.00. Oleum is firm at \$22@\$28 a ton. Second

holders of 66-degree are quoted as high as \$25. Prices are on tank car lots at sellers' works.

Acid, Nitric—Quotations are holding very stiff, owing to the heavy demand. The supply is fair, and stocks are gradually being depleted. Prices are 7½c@7½c for the 42-degree material.

Acid, Hydrofluoric—The stringent market on fluorspar holds the bid firm. The demand is steady. Quotations are 8c@9c on the 30 p. c.; 11c@12c on the 48 p. c.; 12c on the 52 p.c., and 15c for the 60 p. c.

Alums—While advances have been made by second holders, producers for the most part are quoting at the old figures, except on small lot business. Lump is still 4c per pound; ground 4½c, and powdered 4½c. However, up to 6c is heard on spot powdered. The market is practically bare, production being tied up on contract. Chrome ammonium is very firm at 15c @16c per pound. The supply is light here. The various other grades are strong, with quotations from 7½c @8c on potash lump and from 17c@18c on the chrome,

Aluminum Sulphate—Buying is steady, with prices slightly firmer. Commercial is quoted at \$1.75@\$2.00, and iron free at \$2.75@\$3.00 per hundred.

Ammonia Water—Owing to the increasing cost of production and scarcity, manufacturers have sharply advanced the price. Tanks are now quoted on the basis of 834c for the 26-degree, with carboys at 103c per pound.

Ammonium Sulphate—Spot goods are held at \$7.00 per hundred f. a. s. New York. Heavy sales are being put through, and inquiries from the Japanese market continue to be received. Production is tied up until well into May. Deliveries over May and July have been quoted at \$6.30 f. a. s., Southern points, and July -December delivery at \$6.15 f. a. s. this port. Speculation is still rife.

Ammonium Muriate—White granulated has been under heavy buying, and prices are higher. The demand is strong and supplies are extremely light, being controlled by one or two holders. About 15c@16c per pound is being asked. Lump is in good demand, but has failed to advance. Casks are 24c per lb., and less quantities up to 28c. Grey material is unchanged at 12½c.

Arsenic—The demand is steady, and the market is under heavy contracting. Imported stocks to arrive are held at 11c. The local market is close to 10½c on quantities, and up to 12c on small parcels.

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Barium Chloride—Heavy requirements and lack of imported goods have caused an advance in price, which is about \$92.00@\$93.00 per ton. Domestic stocks are limited.

Bleaching Powder—Manufacturers are not quoting on export business, owing to the stringency of stocks. Where material for export is available, the spot price is \$3.25 per hundred pounds, f. a. s. New York. Domestic contracts are higher at \$2.75@\$3.00. However, \$2.50 is still quoted by some dealers.

Copper Sulphate—About 73/4c was named during the week on large crystals. The demand is very light, and second holders appear to be pretty well loaded up with stocks. Producers' prices are 8c@81/4c on the large crystals. Export business is light.

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Fluorspar—Domestic production is limited, and offerings are scarce. From \$75@\$80 a ton is named on the powdered.

Caustic Potash—The supply is still light and the demand fairly heavy at 28c@32c on domestic goods, and 25c on export.

Bichromate of Potash—Further depletion of stocks and continued inquiry have advanced prices. From 32c@35c is asked. The supply is limited. Western material is quoted on futures at 27½c per pound.

Carbonate of Potash—80-85 per cent material is quoted at 24c per pound. The demand is limited as well as the stocks which are controlled by a few holders; 95 p. c. carbonate is obtainable at 34c; U. S. P. material is strong and scarce.

Permanganate of Potash—Supplies are very scarce, and quotations are higher at 57c@60c per lb. for the commercial.

Prussiate of Potash—Recent importations have eased the market, and offerings are made at 95c@\$1.05 on spot goods. Yellow is slightly firmer at 38c for spot and 33c for material to arrive. The Cleveland market closed at 40c on Friday.

Caustic Soda—The majority of producers refuse to quote being without stocks. About \$4.00@\$4.25 is the market. One lot of 1,000 tons was offered at \$3.50, sellers' works, on contract over 1920. The price on domestic deliveries for 1920 is \$3.30 per hundred pounds, basis 60 per cent, sellers' works. In all probability the price will continue upward, until the supply is in keeping with the requirements.

Soda Ash—Contract business is still named at \$1.62½ @\$1.67, f. o. b. sellers' works. The prices of ash in barrels for export is \$1.90, less one to five per cent f. a. s. New York.

Sodium Bichromate—There has been heavy speculation in the market during the week, prices reaching 45c and gradually falling off to 29c per pound. The upward trend was, without doubt, due to fear that the coal stringency would close down plants. The market at the present time appears to be on a downward trend, but in all probability the price will not drop below 20c for some time. Second hands are offering contracts over the year at 17c@18c per pound. Spot goods are obtainable at 29c@35c per pound, with the demand somewhat easier at the close.

The New Jersey Chemical Society was addressed at its December meeting in Newark, N. J., on Monday evening, Dec. 8, by J. Strother Miller, Jr., chief chemist of the Barber-Asphalt Paving Company, Perth Amboy, who gave an interesting talk on "The Lake Asphaltum Industry" illustrated by motion pictures. Dr. E. C. Holton, chief chemist of the Sherwin-Williams Co., Cleveland, O., spoke on "The Manufacture of Paints and Varnishes" also illustrated by means of motion picture films. C. L. Bryden, of the United Filters Corporation, New York, read a paper on "Filter Presses and Filtration." Twenty-seven new members were added at this meeting.

The report of the Bandoeng quinine factory for 1918 states that the activity again experienced a great extension. During the course of the year the deliveries of the various quinine undertakings amounted to 312,000 kilos of quinine in bark form. The stocks in the warehouses at the end of December, 1918, amounted to 66,266 kilos of sulphate in the form of bark, so that the stocks had been increased by about 39,000 kilos. The net profits for the year amounted to £77,000, which sum permitted of the payment of a dividend at the late of 100 per cent for the year.

Industrial Chemical Notes

The Dearborn Chemical Co., Chicago, has awarded contracts for a brick plant, to cost \$40,000.

Charles M. Schwab has bought the shares of the United Zinc Smelting Corporation, which has a smelter at Moundsville, W. Va.

The Pocahontas Guano Co., Lynchburg, Va., has awarded contracts for an addition to increase the capacity to 1,500 tons. The structure will cost about \$125,000.

H. E. Cleaves, formerly chemist with the Metal and Thermit Corporation, Jersey City, N. J., is with the Charleston Chemical Company, Charleston, W. Va., as chief chemist.

Importations of cyanide of potash during the nine months ended with September, 1919, amounted to 720,-461 pounds, against 141,808 pounds in the same time last year, and 104,204 pounds two years ago.

Arthur R. Cade, formerly instructor in chemistry at the University of Minnesota, Minneapolis, Minn., is now associated as research chemist with the National Carbon Company, of Fremont, Ohio.

The Department of Agriculture is enforcing strictly the order against the presence of over one-tenth of one per cent of borax in potash used for fertilizers. It is said that nitrate of soda contains borax.

The Channel Chemical Co., Chicago, has broken ground for a four-story factory building about 150x300 feet, to be located at 4501-15 South Western Boulevard, estimated to cost \$400,000, including equipment.

Sulphur, both crystalline and massive, is found on two small islands in the Bay of Plenty, off North Island, New Zealand, and in the district on the adjacent mainland. All these deposits have been worked spasmodically.

Edgar S. Ross, formerly chief chemist for the Charlotte Chemical Laboratories and Columbite Reduction Co., Charlotte, N. C., is now located at New Hampshire College, Durham, N. H., where he is to carry out a special research in rare earths.

The United States Realty and Improvement Company has leased the O'Neill store on Sixth Avenue for twenty-one years to the Partola Manufacturing Company. The Partola company has departments in several locations in the city and will combine all the activities under one roof. It will pay \$2,000,000 for the entire term of the lease.

Total production of refined potassium salts during 1918 amounted to 53,503,017 pounds, valued at \$17,491,414; the sales amounted to 43,674,844 pounds, valued at \$15,634,-125, according to a report by the United States Geological Survey. In addition there were produced 62,972,000 pounds of potassium chloride, more or less refined, and 13,652,000 pounds of potassium sulfate.

A plant for the manufacture of caustic soda and liquid chloride is being constructed for the Monsanto Chemical Company on the east bank of the Mississippi, opposite the company's present buildings. In addition to the caustic soda and chloride building, the company has under construction a 2,000 horse power plant to generate electricity for the new venture. It will cost \$300,000 and will have two 1,000 kilowatt reciprocating generators.

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The Color and Dyestuff Market

Current Spot Quotations of Colors, Dyestuffs, etc., Pages 36 and 48

MANY DYESTUFFS VERY SCARCE

Aniline Oil Firmer-Advances Made in Benzol and Toluol-Logwood Higher-Dextrines and Starches Difficult to Obtain for Prompt Shipment-Shortage of Many Colors

PRICE CHANGES IN NEW YORK (Stocks in First Hands) Advanced

Acid H, 15c per lb. Benzol, Pure, 2c tb. Benzol, 90 p.c., 1c tb. Dimethyanlline, 5c tb.

Naphthalene, Flake, ½c the Logwood, Solid. 5c the Toluol, Pure, 2c the

Declined No Declines

Trend of the Market

| | Today | Week | Month | Year |
|-----------------------|-------|--------|-------|-------|
| *Benzol, C. Pgal. | \$.27 | \$.25 | \$.28 | \$.24 |
| Naphthalene, flaketb. | .07 | .061/3 | .06 | .09 |
| Phenoltb. | .12 | .12 | .12 | .44 |
| Xylol, puregal. | .40 | .40 | .40 | .45 |
| *Toluol, puregal. | .28 | .26 | .24 | 1.50 |
| Aniline Oil | *.32 | .32 | .28 | 3.75 |
| Benzaldehydetb. | .65 | .66 | .65 | |
| Betanaphthol, disttb. | .50 | .50 | .45 | .65 |
| Paranitranilinetb. | 1.10 | 1.00 | 1.00 | 1.70 |
| o-Toluidinetb. | .25 | .25 | .25 | 1.00 |
| *Nominal | | | | |

Depletion of stocks and price advances characterize the market on the coal-tar crudes, intermediates and many of the miscellaneous items. Demands continue heavy, but sales are greatly curtailed because of the inability of sellers to locate stocks. No improvement is noted, and from all indications a stringency on many of the important items will be felt well into 1920. The demand for H-acid and dimethylaniline was very heavy over the week for spot material as well as for future delivery, but sellers were unable to meet the needs, owing to the sold-up condition on both markets. Prices have been advanced. There are still a few odd lots of aniline on the oil market, but a much firmer tendency is looked for as soon as outside sources are cleaned New producers are entering the field. Aniline salt is nominal. Betanaphthol is sold ahead. Alphanaphthylamine is firmer, with offerings very limited. Paranitraniline is in strong request, and offerings are small at high levels. Monochlorbenzol has been under active buying, but is still in fair supply. Hydroquinone is scarce, and spot material is confined to second hands. Paratoluidine is extremely scarce and under heavy buying pressure. Orthotoluidine has been in keen demand and is slightly firmer. Resorcin is practically off the market.

Benzol and toluol have reached higher levels. These crudes are off the open market, with the exception of one or two odd lots. Supplies continue heavy on contract, and from reports production is slightly easier. Owing to the heavy demand for flake naphthalene, prices have moved up. Cresylic acid has tightened, and prices are unchanged.

Albumen continues soft, and prices are lower. Cutch is in light supply and fair request. Fustic is both in light supply and demand. Hematine is higher. Logwood is up. Dextrines and starches, although not in very strong request, are named at higher levels for spot goods, because of the difficulty of securing shipments from works. Potato dextrine closed under good prices are easy at 17c@20c per pound.

buying. Shellac is very scarce. Prices are nominal and are expected to go higher, owing to the acute shortage at primary points.

The color market is very active. There is a shortage of many important domestic makes, which are in big demand for export as well as for domestic consumption.

Intermediates

Acid-H-The situation is very acute, there being practically no supplies available for prompt delivery. Prices have advanced to \$1.75 for spot material.

Aniline Oil-There are still odd lots obtainable, but not at figures much under those quoted by manufac-The demand for 1920 delivery is decidedly heavy. The high prices have prompted new producers to enter the field, but owing to the recent advance in benzol, prices are likely to go higher. Present quotations are 33c@35c per pound.

Aniline Salt-Offerings for domestic delivery are limited, and sales are conditional that the material shall not be sold for export. Production is sold up well into 1920 on contract, and prices are likely to advance. From 38c@42c per pound is the price.

Alphanaphthylamine-A firm market is reported, with prices decidedly firm at 35c for domestic shipments. Heavy export business has cleaned up supplies for prompt shipment, and export prices are firmer and slightly higher.

Betanaphthol-The distilled product is practically off the market and is held at 50c per pound. Consumption is heavy, and very little material is coming through, except on contract. Deliveries for late January have been quoted at 44c and the contract price for 1920 is not likely to be lower.

Benzidine—Quotations are \$1.10@\$1.20 for the base, but this figure is cut by certain holders. The sulphate is quiet at 80c@\$1.00 per pound.

Dianisidine-Offerings for spot shipment continue light, because of the sold-up condition of the market. From \$10.00@\$12.00 per pound is named.

Dinitrobenzol-Stocks are under good movement on domestic business at 24c@32c per pound, depending up-

Dimethylaniline-The continuation of heavy inquiries and lack of material have sent the price up. Owing to scarcity and the rising cost of raw material there is no market price on spot of nearby deliveries. Production is sold ahead until April by some makers, and 65c is named for shipments that month. The present price is about 70c per pound.

Hydroquinone-Available supplies for prompt delivery are controlled by second hands, who are quoting \$2.10@\$2.25 per pound.

Monochlorbenzol-Consuming requirements have broadened considerably, and ton lots have changed hands at 81/2c per pound. However, the supply continues heavy.

Nitrobenzol-From 16c@17c is generally quoted. The market is strong at this level, owing to the light sup-

Orthonitrotoluol-Requirements are limited,

Paranitrotoluol—Quotations show a wide divergence of \$1.15@\$1.40, according to holder. The demand is steady, and the supply is ample.

Paranitraniline—The market is very firm, with offerings greatly curtailed. One large producer is under contract for his entire output for 1920. About \$1.10 is said to be the inside price for spot material.

Paratoluidine—The continued scarcity has brought new producers into the field, who are quoting from \$1.75@\$2.00 a pound. Very little material is available, as production on contract continues heavy.

Resorcin—Heavy buying has practically cleaned up the spot market, and offerings are limited. The price of the technical is \$3.50@\$5.00.

Coal-Tar Crudes

Benzol—While the stringency is not so pronounced, stocks on the open market are confined to odd lots at high figures, and prices have advanced on 1920 business. The 90 p. c. benzol is quoted at 25c in tanks and 26c@29c in drums. Pure is held at 27c in tanks and 28c @31c in drums.

Cresylic—The market has tightened up, and offerings are limited. The 95 p. c. dark is held at 72c in drums, carload lots; 97-99 p. c. straw at 77c; 50 p. c. at 60c; and 25 p. c. at 40c.

Naphthalene—Flake material has advanced and is now held at 7c for car lots, sellers' works. The demand is heavy, and supplies for spot shipment are limited. Occasionally an odd car is offered at 6½c@6½c, New York. Ball is firmer, and offerings are made at 8½c on car lots and 9½c on less quantities.

Phenol—Export lots are quoted at 18c@20c per pound f. a. s. The material for foreign shipments is light and generally confined to odd lots. Domestic business continues at 12c@17c.

Toluol—In sympathy with benzol, higher prices are now named on this market. Pure is held at 28c in tanks and from 29c@32c in drum lots. Stocks on the open market are very limited and are confined to odd lots. The demand is strong, with offerings on spot largely from second hands.

Dye Bases and Dyewoods

Albumen—Chinese egg is soft, and very little action is reported. Prices are easy and range from \$1.40@ \$1.50 per pound. Imported blood is off the market, and domestic is heavy. Prices on the domestic blood are 55c@60c per pound.

Annatto—Steady buying is reported. Prices are unchanged and are fairly firm at 5c@7c for the seed and 32c@33c for the fine.

Archil—Shipments are coming in, but are largely sold ahead. Prices are, for the most part, nominal at 17c@20c for the double; 19c for the triple, and 20c@25c per pound for the concentrated.

Cutch—Very little material is offered. The demand is fairly strong, with sales largely confined to one holder. The price is 21c@25c per pound.

Pustic—Supplies are scarce, and the demand is steady, but not at all spirited. Prices are firm. Both the sticks and chips are stronger at primary points. Solid is unchanged at 22c@27c; crystals 30c@40c; extract 42-degree 14c@16½c; and the 51-degree is unchanged at 15c@19c.

Hematine—The continued scarcity, together with the heavy demand, has caused a further advance on both the extract and crystals. The 51-degree is quoted at 14c; and the 100 p. c. crystals at 30c. The market is very active.

Dyestuff Notes

The Maas & Waldstein Co., Newark, N. J., has filed plans for an administration building on Riverside Avenue.

The Seaboard Paint Mfg. Co., Baltimore, is making rapid progress on the construction of its new paint plant on Calverton Road.

William J. Cotton, formerly with the color laboratory of the Bureau of Chemistry, Washington, D. C., is now with the research division of the National Aniline & Chemical Company, Buffalo, N. Y.

John Lucas & Co., Inc., Philadelphia, manufacturers of paints, oils and varnishes, has acquired the W. W. Lawrence & Co., Pittsburgh, Pa., capitalized at \$200,000. The purchase includes a large nine-story factory covering an entire city block in Pittsburgh.

F. E. Atteaux & Co., Boston, have just received on the steamship Valacia a large shipment of German dyes, which were purchased in 1914. There were 407 casks in the lot. A further lot of 975 casks will be shipped from Germany as soon as transportation can be arranged.

The Aniline Dye Corporation at a general conference has voted unanimously to increase its capitalization from 33,000,000 marks to 88,000,000 marks. The administration gave exhaustive reasons, citing among other things that the Baden Aniline Soda Corporation had succeeded in perfecting synthetic ammonia.

Color manufacturers report that brown shades which were quiet for a while will probably be the leader for spring. Navy is also being designated in many instances. The one addition which the new season adds to the list of colors that were popular for fall is green, which is a newcomer that is showing up very well in the demand. In silks, rose shades are understood to be coming along strong.

The workers in the Du Pont plants in Salem County, New Jersey, are urging members of Congress to pass the Longworth Bill. In a resolution, copies of which have been sent to Senators and Representatives in Washington, they state that 4,500 workers have organized an Employees' Conference plan. The employees of each department of the Du Pont works elect representatives who meet with other representatives named by the management in a general works conference to discuss and promote matters of mutual interest and benefit to employee and employer.

Logwood—Stocks are very limited, and because of the continued demand and higher prices for the sticks and chips at primary points, the extracts have all advanced. Solid is quoted at 25c; 100 p. c. crystals at 28c; and the 51-degree Twaddle at 15c. In view of the present stringency, higher levels are anticipated.

Dextrines and Starches—Holders' ideas of prices of spot stocks are higher because of the difficulty in securing material at works. Plants have been forced to close down, owing to shortage of coal, and shipments are very uncertain. Corn dextrine on spot has been quoted at \$8.00, starch, powdered at \$6.25, with futures at \$5.32. The market is practically bare of offerings on pearl. Potato dextrine is held at 16½c@18c. Domestic potato starch is unchanged and firm at 7½c@8c per pound. Imported goods are quoted at the same levels. Practically everything in corn depends upon the ability to secure shipments from the mills.

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The Oil Market

Current Spot Quotations of Oils, Page 38; Tallow, Greases, etc., Page 39

FOREIGN TRADE IN OILS CURTAILED

Exchange Rate Forces European Buyers Out of the Market—Good Demand for Fish Oils—Linseed Active—Cottonseed Oil Easy

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced

Coconut Oil, Dom., Ceylon, bbls., Soya Bean Oil, Tanks, Coast, 1/4c lb.

Palm Oil, Lagos, 1/4c lb.

Olive Oil Foots, 1/4c lb.

Declined
Red Oil, 1/2c fb.
Tallow Oil, 10c gal.

Trend of the Market

| | Today | Last Week | Month | Year Year |
|----------------------------|--------|--------------|--------|-----------|
| Cod Oil, N. F | | \$1.14 | \$1.15 | \$1.55 |
| Degras, Amer. bbls | .07 | .07 | .071/2 | .24 |
| Lard, No. 1 | 1.33 | 1.33 | 1.35 | 1.50 |
| Menhaden, South, crd* | | .95 | .95 | 1.20 |
| Neatsfoot, 20 deg. c.t | 2.25 | 2.25 | 2.25 | 3.19 |
| Red Oil, Crude | .16 | .16'5 | .17 | .171/2 |
| Stearic Acid, T. P | .30 | .30 | .30 | .25 |
| Coconut, Ceylon, dom, bbls | .171/2 | .1734 | .171/2 | .171/2 |
| Cottonseed, crude, tanks* | .191/2 | .191/2 | .191/2 | .1753 |
| Linseed cars, bbls | | 1.87 | 1.72 | 1.57 |
| Olive, denatured | | 2.50 | 2.50 | 4.25 |
| Peanut, refined | .26 | .26 | .27 | . 22/2 |
| Soya Bean, bbls | .171/2 | .171/2 | .18 | .18 |
| r. O. D. Mills | | | | |

No signs of a renewal of activity in the oil market here have been noticeable during the week. With a few minor exceptions, the situation at last report is practically unchanged. Linseed oil continues to be the outstanding figure, heavy buying of all positions by consuming trades reported. Little resumption of active business from domestic consumers is expected before the latter part of next month. There is a good reutine demand for fish oils. A narrow, conservative business is reported among the animal oils.

The sharp break in European exchanges during the past week has very effectively stamped out the last spark of demand for fixed oils from abroad at this time. About a year ago Europe bought heavily for a short time to satisfy immediate and imperative needs, but the steady tide of money rates against European buyers has forced them out of the market, and, until exchange rectifies itself materially, this potential de-

mand cannot become a reality.

Vegetable Oils

Linseed Oil—The seed situation is hampering crushers in making deliveries as is also a shortage of coal in some cases. The short domestic crop and reduced shipments from the Argentine just at present has produced somewhat of a seed shortage. Prices are now generally uniform at the recent advances, all crushers concurring at \$1.87 per gallon for car lots in barrels December delivery, \$1.77 for January-March, \$1.72 for April and \$1.62 for May-September. Heavy buying of all positions continues from consuming quarters. The activity of the week in the seed market has shown a decline from \$5.50 per bushel for cash seed at Duluth last week to approximately five dollars per bushel at the present time. Inability to ship is reported reponsible for the decline. At Buenos Aires, the price is slightly higher this week.

Cottonseed Oil—There has been more or less of an easy tendency in the cottonseed oil market all week.

There is not a great deal of interest being displayed by buyers in either spot goods or futures. Crude oil is quiet and unchanged, with quotations in tanks at the mills being still held at 19½c@20c. Prime summer yellow oil for December is about 20.70 with practically no developments noted, with the exception of a slight weakening. It is very likely that business in cottonseed oil will continue dull until after the holiday period.

Coconut Oil-The past week has added practically nothing to the lagging interest which buyers have been showing for some time. Such business as has passed is confined to small conservative purchases for immediate requirements. Among sellers a slightly improved sentiment is noted. Consumers, however, are evidently intent upon waiting until the middle of next month or later to see if prices will move at all in their favor. Soap production has been cut down sharply during the last few months, and a shortage with its consequent higher prices may bring the manufacturers back into the oil market. For Ceylon type domestic oil in barrels on the spot, the price is firmer at 171/2c@18c a pound. Tanks are to be had here at 161/2c@1634c. Cochin is quiet and steady at 191/2c@193/4c for barrels on the spot. Manila oil is unchanged at 161/2c@17c in tanks on the Coast.

Peanut Oil—This oil is in about the same position as coconut and bean oils. Buying demand is confined to small, conservative lots. There is little or no domestic crude oil obtainable. Prices are firm and show no tendency to vary at the present time. For Oriental crude oil in tanks on the Coast, 22½c@23c a pound is quoted. Domestic refined oil is quoted at 26c@27c a pound for barrels on the spot.

Olive Oil—Business in olive oil is routine. Prices are unchanged at former levels. For the edible product, \$3.10@\$3.20 per gallon is named, while denatured oil is steady at \$2.50. Stocks of both grades are rather limited.

China Wood Oil—Odd lots keep filtering in, but no real sized importations have been noted of late. Consumer demand is active and takes up such quantities as are available. The firm position of linseed oil and the spasmodic arrivals of wood oil from the Orient augur for higher prices. Quotations on the spot name 22½c@23½c for barrels, while tanks on the Coast are quoted at 21c@21½c.

Palm Oil—Prices for Lagos palm oil are somewhat firmer, although there has been only slight improvement in demand during the week. Sellers name 171/4c as the best figure, while up to 175/4c is heard for spot goods in casks. Niger is unchanged at 153/4c@16c.

Soya Bean Oil—There has been a little more interest shown by buyers in bean oil this week, particularly for tanks on the Coast and rolling East. However, the actual demand and business passing is small. Crude oil f. o. b. Coast is higher at 16¼c inside, with some holders naming 16¾c. Spot oil is unchanged at 17½c @17¾c.

Animal Oils

Degras Oil—With little business passing in degras cils, prices hold steady at last week's levels. For American type oil, 7c@7½c a pound is quoted, while the English is named at 7½c@8½c. Neutral is quoted from 14c up to 18c as to grade.

Red Oil—Demand has fallen away somewhat, and the price is a trifle easier. Quotations name 16c per pound tor both the crude oleic acid and saponified.

Stearic Acid—In keeping with the tailow and stearine markets, stearic acid prices show an easier tendency this week. Triple pressed is freer at 30c per pound, while double is to be had at 26c. Single pressed acid is quoted at 23c a pound.

Lard Oil—Lard oil is in good routine demand at the same prices. For prime oil, \$1.85 per gallon is named, while off prime is quoted at \$1.75. Extra No. 1 is selling for \$1.40, No. 1 at \$1.35 and No. 2 at \$1.28 per gallon.

Fish Oils

Cod Oil—There are very limited supplies of both Newfoundland and domestic oils, which are still in active demand from consuming trades. For the former oil, \$1.12@\$1.14 per gallon is being paid, while American oil is obtainable in small lots at \$1.10@\$1.12. As the winter advances, the resellers' price of cod oil is likely to move to considerably higher levels.

Menhaden Oil—Northern oil is practically cleaned off the market. Southern crude is still available at 95c @\$1.00 per gallon f. o. b. Baltimore in barrels. There is an active demand for the refined grades of the oil.

OUTPUT OF ROSIN AND TURPENTINE

(Special to DRUG AND CHEMICAL MARKETS)

Washington, D. C., Dec. 15.—The following preliminary report on the production and stocks of naval stores is made by the Bureau of Chemistry, United States Department of Agriculture: The statistics compiled by the Bureau of Chemistry from individual reports from producers show that there was made during the first half of the present season, up to Aug. 1, about 163,000 casks of turpentine and 491,000 round barrels of rosin (500-pound barrels). Producers' estimates for the balance of the season, from Aug. 1 to the close of operations, indicate that about 174,000 casks of turpentine and 547,000 round barrels of rosin will be made during this period, indicating a total production for the season of 337,000 casks of turpentine and 1,038,000 barrels of rosin. This does not include wood turpentine, wood rosin or rosin reclaimed from batting dross.

Production has been greater in Georgia and Florida this year, up to Aug. 1, than it was last year. In the other States it has been less this year than it was last year. This, together with the fact that large quantities of old turpentine and rosin which had been made during previous seasons and tanked and stored at the stills, have been shipped in to the three main Eastern ports this year, probably accounts for the considerable increase in receipts reported at Savannah, Jacksonville and Pensacola, compared with last year. This is es-

pecially true of turpentine.

The total stocks of turpentine and rosin in the hands of the paper, paper size, paint and varnish, soap, greases and lubricants, shoe polish and leather dressings, rosin oil and pitch, printing ink, sealing wax and insulating materials, soldering, flux, matches and woodenware, fly paper, linoleum, automobiles, buggies and wagons, and foundries and foundry supply industries on Aug. 1, 1919, were approximately as follows:

| | Turp | casks | Rosin bbls. |
|----|--------------------|--------|-------------|
| On | hand April 1, 1919 | 28,500 | 203,000 |
| _ | hand Aug. 1, 1919 | 20,500 | 182,000 |
| | Decrease | 8,000 | 21,000 |

The Oil Markets

Fire, which caused a loss of \$300,000, occurred Dec. 12 at the vegetable oil plant of C. F. Simonin's Sons at Philadelphia.

Experiments in retorting oil from shale are being made by Captain W. H. Worsfick near Santa Ynez, Cal. Improvements on the methods employed in Scotland are being worked out.

The International Lubricant Co., Chicago, has completed foundation work for its plant at 2121 Greenleaf Avenue, Evanston, Ill., to cost about \$25,000. W. O. Jeffery, 350 North Clark Street, Chicago, is manager.

About 15,000,000 poods of sunflower seed was collected and utilized by over 600 sunflower oil-producing works in North Caucasus, Russia, in 1915. As a general rule they are small and run by peasants themselves, but a strong tendency to enlarge and improve them is now apparent. At Ekaterinodar, which is the center of the Kuban district, there are three large oil works, each with an annual output valued at 650,000 rubles.

Two suits have been filed in the United States District Court at San Francisco against the steamer West Conob, operated by the Pacific Mail Steamship Company. Willitts & Patterson are the plaintiffs in one action and ask \$30,250 for the failure to deliver a cargo of vegetable oil shipped from China to this port. In the second action the China Agency & Trade Co. asks aganges for breach of contract concerning the same shipment.

NORWAY MARKET FOR SOAPS

Beginning with 1916, England's inability to furnish soap for export in sufficient quantities caused Norwegian consumers to look to the United States for their needed supplies, and then American soaps were introduced on a quantity basis. This trade reached its maximum in the years ending June 30, 1916 and 1917. With the entry of the United States into the war and the establishment of restrictions on exports and shipping, the trade was much reduced and England gained a high percentage. This percentage must, however, be considered in the light of the greatly reduced total imports in the year ending June 30, 1918.

The Norwegian import duties are based on weight and are classified as follows: Green soap and unscented soap powder, 5-6 ore (1.34 cents to 1.61 cents) per kilo; transparent, scented soaps and powders, and toilet soaps of all kinds, 50-70 ore (13.4 cents to 18.76 cents) per kilo; other soaps, including laundry soaps, 10-14 ore (2.68 cents to 3.75 cents) per kilo.

The Norwegians are very conservative in many lines. If an article has won favor, the trade prefers to keep on using it rather than venture into new lines. This is true for soap as well as for other commodities. During the past 25 years certain European soap companies have had their products in the Norwegian market, and their brands have become well known through persistent advertising and sales campaigns.

Although many classes of American soap have now won a place in the Norwegian market, a careful follow-up campaign is necessary if they are to hold the position won. There seems to be a good opening for some special classes of soaps, such as soap powder and flakes, scouring soaps, cleaners and cleansers, in addition to soaps adapted to use by mechanics and sea workers, and floating soaps for the toilet, bath and fine laundry.

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The Foreign Markets

Imports of Drugs, Chemicals, Dyestuffs, etc., Pages 39 and 40

LONDON DRUG PRICES ADVANCING

Menthol, Shellac, Japanese Mint Oil, Thymol and Senega Higher—Lemon Oil and Agar Agar Easier —Sulphate of Copper and Benzaldehyde Lower

(Special Cable to DRUG & CHEMICAL MARKETS)

London, Dec. 16.—Trading has been brisk this week, and prices are advancing. Mercurials are up 9d. Carbolic acid, crystals, have been advanced to 10½d, and the output is said to be sold ahead until March.

Menthol is up 9s to 70s@75s. Shellac, standard, is ever 600s; orange 630s.

The market is higher on Japanese peppermint oil and bromides. Linseed oil is £107. Quicksilver, thymol, cream tartar and senega have also been advanced

There is an easier tone in lemon oil and agar agar. Copper sulphate and benzaldehyde are lower.

London, Dec. 6 (By Mail).—The demand for chemicals and drugs continues good, and the price tendency is still upwards. The restrictions attending the importation of Continental specialties are on the increase, and many parcels on arrival have been held up, the effect being to induce holders of spot stocks to advance prices.

Bismuth salts were advanced all along the line, the assumed reason being the heavy demand and shortness of metal. Subnitrate list 14s 9d, 2 cwts 14s 3d per 1b. Carbonate list 16s 6d, 2 cwts 16s per 1b.

Camphor, refined (English), advanced 1s per 1b. to 19s per 1b for bells and 18s 6d for flowers. Japanese slabs, after their recent advance, close firm but quiet ad 18s 6d to 18s 10½d. It is reported that the lastnamed price has been paid.

Shellac has soared to a still higher record attributable to the Calcutta rupee price advancing in sympathy with the silver market. T. N. orange was last week 515s but is now 570s paid with an advance of 50 to 60s on forward shipments up to 560s c. i. f.

Acetanilid, in sympathy with the advance in New York and the reported difficulty in shipping, is very firm at 3s 6d to 3s 9d per lb.

Balsam Peru is decidedly dearer on cables from South America, at 19s 3d per lb.

Oxalic acid is quotably dearer at 1s 5d per 1b.

Barbitone has depreciated probably more than any other fine chemical, and is reported to be again on the upward track at 29s to 30s per lb.

Tannic acid is firmer. Levis Puriss spot is 10s 6d. Cocaine moves off in small quantities only, owing to the severe restrictions placed on its sales; 35s per oz is now asked for hydrochlor.

Citric acid is quiet at 4s 3d per 1b. Sulphonal is 10 per cent cheaper at 59s.

Menthol—The demand has quieted down, and this is not surprising after the recent rapid advance, Kobayashi costing today 60s per lb.

Cod liver oil—Norway wires the price of new nonfreezing quality at 460s per barrel c. i. f. Newfoundland appears to be arriving very freely in Liverpool.

Saccharin is cheaper at 130s per 1b duty paid, duty 110s per 1b.

PROFIT IN MORPHINE SMUGGLING

(Special to DRUG AND CHEMICAL MARKETS)

Toronto, Canada, Dec. 16.—The Canadian Department of Public Health supplies figures showing the importation of harmful drugs into Canada, indicating that since the coming into force of restrictions in May last their use has been reduced over 50 per cent. The figures in the first column following show the imports into Canada during the fiscal year ending March 31, and in the second column for the six months ending Nov. 30:

| | oz. | OZ. |
|-------------|------------|-------|
| Cocaine | 12,333 | 3.293 |
| Morphine | 30,087 | 9,424 |
| Crude opium | 34.263 | 7.222 |

It is stated that Montreal imports more than 95 per cent of the whole quantity used in Canada. It is known that that city is the headquarters for the illicit traffic in drugs, and that a large percentage is smuggled into the United States. The profitable nature of this trade is shown by the fact that morphine valued in Montreal at \$12 per ounce is sold in Chicago at \$60. A great deal is taken to Windsor, Ont., and smuggled across the line there. The Department expects shortly to have the whole matter well in hand and to be able to trace where every ounce of cocaine goes to and practically wipe out the traffic.

JALAP AND SARSAPARILLA SCARCE

(Special to DRUG AND CHEMICAL MARKETS)

Santa Cruz, Mexico, Dec. 1.—There is a scarcity of jalap and sarsaparilla root owing to the revolutionary conditions in parts of Mexico, laborers being unable to work in the interior. This condition is likely to continue for some time, as the Mexican Government is unable to give protection to the people living outside of the larger cities. Most of the jalap and sarsaparilla root shipped from this port comes from Cordoba and Jalapa in the State of Vera Cruz, where the rebels are in complete control of the country surrounding those cities.

During November only 6,945 kilos of jalap root was shipped from this port. The price is advancing, and some buyers are paying \$2.00 per kilo for jalap. Only 1,027 kilos of sarsaparilla root was shipped to the United States during November. The market price for sarsaparilla is \$1.40 to \$1.50 per kilo.

Among other goods exported during November were vanilla beans 14,922 kilos; chicle 30,757 kilos; quieksilver, 2,188 kilos; sugar 1,499,867 kilos. This sugar is Java sugar that has been stored in Mexico City and is said to be damp. Honey 140 gallons; canagria root 5,270 kilos; linaloe essence 347 kilos; castor beans 51 kilos, and nuts 1,089,056 kilos.

NITRATES BY WAY OF PANAMA

In spite of exceedingly heavy shipments of California products through the Panama Canal since its opening, nitrates from South America have formed more than one-fourth of all the cargo through this waterway. Shipments of this commodity through the waterway to Sept. 1, of the present year, amounted to 7,464,863 tons.

CAFFEINE AND THE CEYLON TEA CROP

In connection with the fluctuating price of caffeine, which is made from tea sweepings, it is interesting to note the exports of tea from Ceylon in 1918, which was less than in any previous year since 1908, 181,000,000 pounds having been exported, as compared with 195,000,000 pounds in 1917, 203,000,000 pounds in 1916, and 215,000,000 pounds in the record year of 1915. Shipments to the United Kingdom were under the supervision of the Ceylon Tea Commissioner, representing the British Food Controller in London, who requisitioned 50 per cent of Ceylon's entire output; no private shipments were allowed.

Comparing shipments made in 1918 with those in 1917 as regards distribution, it is noted that the United Kingdom imported 8,000,000 pounds more and Australia nearly 9,000,000 pounds more. Shipments to the United States decreased from approximately 25,500,000 pounds in 1918 to 11,000,000 pounds in 1917, and exports to Russia during the same period fell from 14,000,000 pounds to practically nil.

Owing to various war-time restrictions, there were unusual fluctuations in the market quotations, with a general tendency to depress prices. The average price for the year 1918 has been put at \$0.142, as compared with \$0.159 in 1917, \$0.168 in 1916, and \$0.184 in 1915. Except early in the year, fine teas were scarce; and the Ceylon Chamber of Commerce reports that, generally speaking, the offerings during the year were not very attractive, the greater proportion being quite ordinary. It is unofficially estimated that Ceylon's tea production in 1919 will be 200,000,000 pounds.

Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

31482—Representation is desired by a man in Belgium for the sale of zinc products. Correspondence and catalogues should be in French.

31491—An agency is desired by a chemical expert in Italy for the sale of industrial and pharmaceutical chemicals, machinery and mechanical goods in general. Correspondence may be in English. References.

31497—An agency is desired by manufacturer of soap and lye in Spain for the sale of chemicals, dyes, greases, paints, copra, coconut oil, and machinery. Quotations should be given c. i. f. Spanish port. Correspondence may be in English. References.

Among the mineral resources of the Russian Caucasus are some large deposits of pumice stone in the Province of Kars and some smaller ones in the neighboring Government of Erivan. The only one that had been worked before the war is located 7 versts (about 5 miles) from the town of Kars, where the stone occurs in large pieces. Later two large deposits of small pieces, each about a square kilometer in area, were discovered about 40 versts (27 miles) from Kars. Here borings were made to a depth of about 40 feet without reaching the bottom, and it is estimated that each contains about 180,000 short tons.

FOREIGN TRADE SITUATION ANALYZED

"The excess of American exports over imports has grown out of bounds," is the opinion of Philip B. Kennedy, whose first annual report as Director of the Bureau of Foreign and Domestic Commerce, Department of Commerce, was made public today.

"There is no question about the demand for American goods abroad," says Mr. Kennedy. "Europe is still experiencing an acute shortage of food, raw materials and all kinds of manufactured goods. Lacking imports to balance our exports, the pertinent question is the extent to which we can safely take future promises to pay. Whatever one's views about the proper nature of the peace settlement, all may readily see and agree that foreign credit arrangements are being delayed awaiting a more stabilized condition. Unless certain reasonably adequate credits are soon made to foreign countries, our exports may be expected to fall off on account of depreciated foreign exchange."

In discussing the future of the Bureau's work the report calls attention to the fact that it must compete with private concerns for men. There is a great scarcity of men with foreign business training and experience. The Bureau is constantly losing some of its most effective men to private concerns. Other men are remaining in its service with the hope that provisions will be made that will enable them to make it

"American export firms should realize that now is the time to lay foundations for permanent foreign trade," declares the report. "At this time when the pulse of foreign business conditions is uncertain and subject to rapid changes, policy must be formulated on the basis of most recent and authentic information. World trade adjustment is going on. It is often difficult, however, to distinguish real developments from unfounded rumors. Many ambitious projects have little behind them. American firms should test every proposition for trade development very carefully."

"The character of our foreign business today will determine our opportunities of tomorrow. If American exports are made to assist in restoring essential production abroad and lead to sound world economic conditions, the resulting security will enable trade to then go ahead with confidence. The United States is at present the world's principal producer. It is especially important that we face the general question of our export trade in a farsighted business manner. We have a big stake in the stability of world economic conditions. Our future as an exporting nation depends to a large degree upon our policy in the immediate crisis."

ENGLISH MENTHOL SITUATION

The following extract from a recent letter received by Rockhill & Vietor of New York from their London constituents gives an opinion on the English menthol

"We note with interest your letter of the 18th ulto. The price today here is 63s per lb. ex store for shipment. We might mention that very few of the regular merchants in the trade are touching this article at the above figure and consumers here are buying one case at a time, whereas they were in the habit of buying 20 to 30 cases. We certainly think the bubble will be priced shortly, as the speculators are men outside the trade."

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

NOTICE—The prices herein quoted are for large quantities in original packages. All prices are quoted on a basis of avoirdupois pounds and ounces and American gallons. Where the price of a product is indicated by two sets of figures separated by a dash (.16 — .19), it means that various manufacturers or importers of the item quote different prices which are all included within this range.

For the ready reference of foreign buyers, the following table of equivalents is published:

inperial Gallon (Brit.)—1.20 Amer. Gallons
American Gallon—833 Imperial Gallon
American Gallon—3.79 liters
Liter—264 American Gallon
American Gallon (H₂O) weighs 8 pounds
Pound (Avoirdupols) weighs 454 kilogram
Kilogram weighs 2.20 pounds (Avoirdupols)

Fine Chemicals

| | | _ | |
|---|----------------------------------|---|----------------------------|
| Acetanilid, C.P., bbls., blktb. Acetone | 54 | | 25 |
| Acetone | 13 | | 15 |
| Acetohenetidin | 2 70 | - | 9 75 |
| Aconitine Sulph Mar wishes | 2.70 | | 4./3 |
| Adena Lange bydroue See Lan | nolin | _ | |
| Anhydrous See Landin | nonn | | |
| Alaskal 100 annef | | | 4 700 |
| 100 proof U.S.D. cal | _ | _ | 4.75 |
| Colomba Spirit 100 pages | | _ | 4./3 |
| Wood spirit, 190 proofgal. | 1 42 | _ | 3.00 |
| wood, ret. 95 p.cgal. | 1.46 | - | 1.40 |
| Description of 100 and 1 | 1.45 | _ | 1.40 |
| Denatured, 180 proof | .71 | - | .13 |
| 188 proof | 1.73 | - | ./3 |
| Aidenyde | 1.23 | _ | 1.43 |
| Aloin U.S.P., powd | .90 | - | 1.00 |
| Ammonium, Acetate, crystlb. | .03 | - | .70 |
| Aldehyde b. Aloin U.S.P., powd. b. Ammonium, Acetate, cryst. b. Benzoate, cryst. U.S.P. b. Bichromate, C. P. b. Bromide, gran, bulk. b. Carb.Dom.U.S.kegs, powd. b. Chloride U.S.P. b. Hypophosphite b. | - | - | 4.00 |
| nichromate, C. P | .95 | _ | 1.00 |
| Bromide, gran., bulk | .80 | _ | .81 |
| Carb.Dom.U.S.kegs, powd. 1D. | .12 | - | .12 |
| Chloride U.S.P | .24 | - | .25 |
| Hypophosphite | 2.10 | _ | .12 .25 2.15 4.85 |
| Iodideb. | _ | - | 4.85 |
| Gran. b. Oxalate, Pure b. Persulphate b. Phosphate (Dibasic) b. Salicylate, U.S.P. b. Amyl Acetate, bulk, drums, gl. Antimony Chlor. (Sol. butter of | .83 .95 .50 .95 3.65 | _ | .54 |
| Oxalate, Pure | .83 | - | .85 |
| Persulphate | .95 | - | 1.05 |
| Phosphate (Dibasic)fb. | .50 | - | .60 |
| Salicylate, U.S.P | .95 | _ | 1.00 |
| Amyl Acetate, bulk, drums.gal. | 3.65 | - | 3.75 |
| Antimony Chlor. (Sol. butter of | | | |
| Antimony)tb. | .18 | - | .20 |
| Needle powdertb. | .12 | - | .14 |
| Sulphate, 16-17 per cent free | | | |
| sulphurtb. | .35 | - | .74 |
| Antimony Chlor. (Sol. butter of Antimony) | 5.50 | - | 5.60 |
| Anomorphine Hydrochloride oz. | - | -2 | 6.80 |
| Argolstb. | .10 | _ | .11 |
| Arsenic, red. See Heavy Chemic | als | | |
| White. See Heavy Chemicals. | | | |
| Aspirin | .95 | - | 1.00 |
| Atronine, Alk. U.S.P., 1-oz v.oz. | _ | -3 | 0.00 |
| Sulphate, U.S.P., 1-0z.v., oz. | - | -1 | 4.00 |
| Barbital | - | - 1 | 2.25 |
| Barison Carb prec. pure ID. | .28 | - | .29 |
| Chlorate puretb. | .28 | _ | .29 |
| Chlorate, puretb. Bay Rum, Porto Ricogal. | 3.20 | - 1 | 3.25 |
| St. Thomasgal. | 3.20 3.20 | - 3 | 3.25 |
| Benraldehyde (see bitter oil of s | lmon | ds) | |
| St. Thomas gal. Benzaldehyde (see bitter oil of s Benzonaphthol | 4.25 | -34 | .50 |
| Perhapina Highl | | -34 | 1.00 |
| Acid Salphate th | = | -31 | 1.00 |
| Mouteel Sulph | - | -38 | 5.00 |
| Pinneth Ammon City II S P th. | - | - 5 | .80 |
| Citrate TISP | _ | - 2 | 3.50 |
| Benzonaphthol Berberine Hdohl h. h. Acid Sulphate, h. h. Neutral Sulph Dismuth Ammon Citr., U.S.P.h. Citrate, U.S.P. h. Oxide, pd h. Oxychloride hb. | _ | - 2 | 8.80 |
| Ownshlorida th | _ | - 3 | 3.20 |
| Colioviate | - | _ 5 | 2.95 |
| Subhangorte Ih | - | 4 | 1.25 |
| Subbenzoate | _ | 5 | 3.20 |
| | _ | _ ; | 3.20 |
| Subiodide | - | - 1 | 3.35 |
| Subnitrate | _ | -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 - | 2.90 |
| Nominal. | | | |
| Nominal. | | | |
| | | | |
| | | | |

| in | Bismuth Subsalicylatetb. | 3. |
|-----|---|---|
| in | | 3. 2. |
| | Metallicb. | 2.80 - 2. |
| re | Crystale IISP Kege th | .081/2 |
| ois | Bromides, See Potass. Brom., et | te. |
| an | Bromine, tech., bulkfb. | .55 |
| d- | Cadmium Bromide, crystals | 1.75 - 1.4 |
| cs | I tourde | 1.40 - 1. |
| | Caffeine, alkalcid, bulk tb. | 1.40 — 1. 7.00 — 7. 8.25 — 8. |
| it | Hydrobromideb. | 8.25 — 8. |
| TS | Phoenhate | 6.00 — 6.1 10.08 —11.0 |
| if- | Phosphate | 9.25 - 9. |
| ed | Calcium Glycerophosphate tb. | 9.25 - 9. $1.70 - 1.$ |
| 7 | Iodideb. | 4.0 |
| | Iodide b. b. Sulphocarbolate b. | .21 |
| gn | Camphor Am, ref'd bbls.hk.th. | .85 — — — 3 |
| a- | 16's in 1-lb. cartonfb. | 3.75 - 3.1 |
| | 24's in 1-lb. cartonfb. | 3.75 — 3.8 |
| ns | Tanan refined 21/2 the slabs th | 3.60 - 3.6 |
| | Monobromated, bulk | - 5.5 |
| | Caramelb. | 3.75 — 3.8 3.75 — 3.8 3.75 — 3.8 3.60 — 3.6 — 5.5 1.05 — 1.1 |
| | Casein, C.P | : .74 - : |
| | Cerium Oxalate | 74 - 7 |
| 8) | Heavytb. | .040 |
| = | Chalk, Precip.,tb. | $.05\frac{1}{2}$.0 .0 .0 .0 |
| | Chloral Hydrate IISP erva- | .03 — .0 |
| - | tals, drums incl'd 100lb, lotstb. | 9 |
| | Chloroform, drums. U.S.Ptb. | 9 3 4.0 |
| | Chrysarobin, U.S.Ptb. | 4.0 |
| | Cinchonine Alk crystals oz. | 1.2 7 4 9.5 9.7 .384 |
| | Sulphateoz. | 4 |
| | Sulphate or. Oz. Cocaine, Hydrochl. gran. oz. cryst. bulk oz. Coca Butter, bulk bt. Cases, fingers bt. Codeine, Alk., 10-oz. lots. oz. Hydrobromide oz. Nitrate oz. | 9.5 |
| | cryst., bulkoz. | - - 9.7 |
| | Cases fingers th | .384 |
| | Codeine, Alk., 10-oz. lotsoz. | 11.4 |
| | Hydrobromideoz. | - 9.1 - 10.3 |
| | Nitrateoz. | $\frac{-10.3}{-8.6}$ |
| | Phosphate | 9.1 |
| | Cod Liver Oil. Newf'd bbls. | 90.00 -92.0 |
| | Norwegianbbl. | |
| | Collodion, U.S.P | .305 |
| | Coumarin, refined, see Aromatic | Chemicals |
| 16 | Cream of Tartar, cryst, U.S.P.tb. | .555 |
| - | Powdered, 99 p.cb. | .555 |
| - 1 | Carbonate th. | 5.00 - 5.2 |
| i | Cresol, U.S.Ptb. | .153/410 |
| | Dionin, See Morph. Ethyl Hydro | chl. |
| | | |
| | Creosote, U.S.P | 27.0 |
| | 15 gr., vialsea. | 1.2 |
| - 1 | Epsom Salts, see Mag. Sulphate | |
| - 1 | Ether, U.S.P., Conc | 17 |
| - 1 | Nitrous. conc. | 1.10 - 1.1 |
| - 1 | U.S.P., 1880fb. | 34 |
| - 1 | Anaesthesia | 2 |
| - 1 | *Formaldehyde | 32 — 3 |
| - 1 | *Formaldehyde Gelatin, sliver | 1.25 - 1.30 |
| - 1 | Drums and bbls. addedtb. | |
| - 1 | Drums and bbls. addedtb. C. P. in canstb. Dynamite, drums included tb. Saponifications, loosetb. Soan Lve. loosetb. | 23 |
| -1 | Dynamite, drums included to | .211/222 |
| - 1 | Saponifications, loosetb. | .151/216 |
| -1 | | .1414 |
| - 1 | | 6.50 |
| | Carbonatetb. Guaranatb. | - 24 .21½22 .15½16 .1414 - 6.50 1.10 |
| | Haarlem Oil, domgross | 3.75 - 4.60 |
| | Importedgross Hexamethylenetetraminefb. Hydrastine Alkoz. | $\frac{-}{1.30}$ $\frac{-}{-}$ $\frac{5.50}{1.35}$ |
| 1 | Hydrastine, Alkoz. | 26.50 |
| 1 | Hydrochlorideoz. | 26.50 |
| | Sulphateoz. | |
| | Hydrogen Peroxide, U.S.P., 10 gr. 4-oz. bottlesgross | lots 7.25 |
| | 4-oz. bottlesgross | 7.25 16.25 |
| - | 16-oz. bottlesgross | − −19.25 |
| | Hydrogninone bulk th. | 2.00 - 2.05 |
| | Ichthyolb. | 4.50 |
| - | Iodides, See Potass. Iodide, etc. | 450 |
| 1 | Ichthyol | 5.25 |
| 1 | Crystalsfb. | 5.75 |
| | | |

| 1 | Iron Citrate, U.S.P., VIII tb. | | - 100 |
|---|---|---------------|--------------------|
| | Iron Citrate, U.S.P., VIIItb. and Ammon Citrate, U.S.P. bb. Green scales, U.S.Pb. | - | - 1.10 |
| 1 | Jodide U.S.P. b. Phosphate, U.S.P. b. Pyrophosphate, U.S.P. b. Metallic, Reduced b. Kamala, U.S.P. b. Lanolin, hydrous, cans U.S.P.b. Anhydrous, cans b. Lead lodide. U.S.P. VIII b. Licorice, U.S.P. Mass b. Powdered b. | | - 1.87 - 4.25 |
| | Phosphate, U.S.Ptb. | - | - 1.36 |
| | Metallic, Reduced | | $\frac{-1.11}{90}$ |
| | *Kamala, U.S.Pb. | _ | - 4.00 |
| | Anhydrous, cans U.S.P.Ib. | .25 | |
| - | Lead Iodide, U.S.P. VIIItb. | - | - 3.40 |
| 1 | Licorice, U.S.P., Mass | .54 | 55 |
| 1 | Stickstb. | .80 | 85 |
| 1 | Citrate | _ | - 1.50 - 2.50 |
| | Lupulintb. | 2.25 | - 250 |
| ı | Magnesium Carb. II.S P bble th | 2.10 | - 2.25 20 |
| ١ | Technical, bblstb. | .12 | |
| 1 | Hyphophosphitetb. | 1.65 | - 4.55 |
| 1 | Oxide, tins light | - | - 1.70 - 1.10 |
| 1 | Peroxide, cans | .60 | - 2.15 65 |
| 1 | Sulphate, Epsom Salt, tech. | .00 | 03 |
| ı | Citrate b. b. Lycopedium, U.S.P. b. Magneslum Carb. U.S.P. bb. Magneslum Carb. U.S.P. bbls. b. Glycerophosphate b. b. Oxide, tins light b. Peroxide, cans b. Salicylate b. Sulphate, Epsom Salt, tech. | 2.00 | - 2.10 - 2.75 |
| 1 | Manganese Glycerophos ib. | 3.25 | - 3.35 |
| 1 | Hypophosphite, U.S.P., VIIIb. | 2.00 | - 2.10 - 5.00 |
| ı | Peroxideb. | .75 | 80 55 |
| ı | Sulphate, crystals | _ | 55 -13.25 |
| ı | Mercury, flasks, 75 lbea.1 | 00.00 | -105.00 |
| ı | Bisulphateb. | _ | - 1.26 81 |
| ı | Powderedb. | _ | 83 |
| ı | Blue Ointment, 30 p.c | - | 79 - 1.10 |
| 1 | Cltrine Ointmenttb. | _ | 59 |
| ı | Calomel, Amer | _ | - 1.68 - 1.56 |
| ı | Powdered, Granulartb. | _ | - 1.51 |
| ı | Iodide, Greenb. | _ | - 4.11 - 4.21 |
| l | Yellow | _ | - 4.11 |
| ١ | Red Precipitate | _ | - 1.85 - 1.95 |
| ı | Sulphate, Epsom Salt, tech. 100-lbs. U.S.P. 100-lbs. U.S.P. 100-lbs. Hypophosphite, U.S.P., VIIIb. Iodide bb. Peroxide bb. Sulphate crystals bb. Menthol, Japanese bb. Mercury, flasks, 75 lb. ea.l Blsulphate bb. Blue Mass bb. Blue Mass bb. Calomel, Amer. bb. Calomel, Amer. bb. Calomel, Amer. bb. Powdered, Granular bb. Red bb. Red bb. Yellow bb. Red Precipitate bb. White precipitate bb. | _ | - 1.97 |
| | Powderedtb. | - | - 2.02 82 |
| 1 | Methyl salicylate, see Aromatic | Che | micals |
| | Methylene Blue, medicinaltb. | = | -12.00 - 23 |
| | Mineral Oil, whitegal. | 1.00 | - 2.00 |
| 1 | Methylene Blue, medicinallb. Milk, powdered | _ | - 8.80 - 8.80 |
| ı | Hydrochlorideoz. | - | - 8.80 |
| ì | Sulphate | _ | - 8.80 -13.10 |
| l | Diacetyl. Hydeloz. | - | -11.85 -13.45 |
| 1 | Opium, cases, U.S.Ptb. | _ | - 6.75 |
| 1 | Granular | _ | - 9.00 - 9.00 |
| 1 | Granular | 1.50 | - 1.55 |
| 1 | Papain | 3.50 | - 4.00 |
| ľ | Paraformaldehyde | 3.10 | - 3.60 80 |
| j | Paris Green, kegs | .30 | 31 - 3.50 |
| H | Petrolatum, light amber bbls. fb. | 3.00 .071/ | 08 |
| ľ | Cream Whiteb. | .09 | 09½ 16 |
| | Lily White b. Snow White b. Snow White b. Phenolphthalein b. Phosphorus, yellow b. Red b. Flocarpine cos. Podophyllin b. Otassium acetate b. Bicarbonate, U.S.P. bb. Bisulphate b. | .15 | |
| 1 | Phenolphthaleinb. | 1.75 | - 1.80 35 |
| - | Redb. | .68 | 70 |
| 1 | Pilocarpineoz. | _ | -10.00 - 9.50 |
| 1 | Potassium acetate | .75 | 80 |
| | Bicarbonate, U.S.P | .45 | 60 |
| | C. P | .75 | 85 |
| | Bromide Crystals, bulkfb. | .90 | 91 86 |
| | Granulatedtb. | .18 | 86 10 |
| | Chromate, crystals, yellow, | _ | 75 |
| | Citrate, bulk, U.S.P | .= | - 1.81 |
| | Chlorate Ib. Chromate, crystals, yellow, tech. 1-lb. e. h. 10 th. Citrate, bulk, U.S.P th. Glycerophosphate, 75% oz. Hynophosphite, bulk oz. | 1.75 1.95 | - 1.80 - 2.00 |
| | Todide, buik | 3.40 | _ 3.50 |
| | Permanganate, U.S.Pfb. | .59 | - 1.00 60 |
| | Nominal | | |

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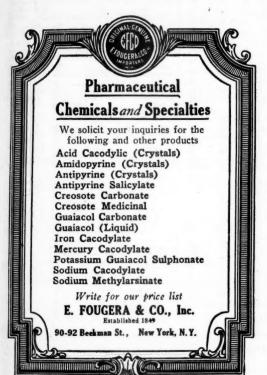
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| Potassium Salicylate | 1.11 - 1.16 1.25 | Acids | | Cuttlefish Bones, Tri Jewelers, large Small |
|--|--|---|--|--|
| Procaine, oz. bottles | 1.50 - 1.60 | | | Bragon's Blood, Mas |
| Quicksilver, See Mercury Quinine Sulph., 100-oz. tinsoz. | 90 | Acetic, 28 p.c See Heavy Che Glacial, See Heavy Chemicals | emicals | Reeds Ergot, Russian |
| 1-oz. tinsoz. | 98 | Acetyl-salicylie | .95 — 1.00 | Spanish |
| 1-oz. tinsoz. Second Hands, Javaoz. *Second Hands, Ameroz. | $\frac{-}{1.20}$ $\frac{-}{1.25}$ | Benzoic, from gum | | Spanish |
| Bisulphate, 100-oz. tinsoz. | 90 | U.S.P., ex toluoltb. | .8085 | racine Coast, prin |
| Acetateoz. | $\frac{-1.29}{-1.29}$ | Boric, cryst., bblstb. | | Langlass, American (s |
| Benzoateoz. | -1.29 | Powdered, bbls | | Russian Kola Nuts, West Ind |
| Citrateoz. Dihyd'chlorideoz. | 1.29 1.29 | Butyric, Tech., 60 p.cfb. Camphoric | 1.45 — 1.55 6.00 — 6.20 | Honey, Calif |
| Hydrochlorideoz. Hypophosphiteoz. | 1.19 1.29 | Carbolic cryst., U.S.P., drs.tb. | .15 — .18 | Manna, large flake Small flake |
| Phosphateoz. | 1.19 | 1-lb. bottletb. | 26 | Moss, Iceland |
| Phosphateoz. Salicylateoz. Tannateoz. | 1.19 90 | 5-lb. bottletb. | 23 | Moss, Iceland Irish Musk, pods, Cab |
| Quinidine Alk. crystals, tins.oz. | — − 1.26 | 50 to 110-lb. tins | | Tonquin Grain, Cab |
| Sulphate, tinsoz. | 85 | Liquid, U.S.Ptb. Crude, 25%gal. | | Grain, Cab |
| Resorcin crystals, U. S. P. b. Rochelle Salt, crystals, bxs. b. Powdered, bbls | 6.00 - 6.25 | Chromic, U.S.Ptb. | .2431 $1.25 - 1.50$ | *Synthetic |
| Powdered, bbls | 39 | Chrysophanietb. | 5.00 | Nux Vomica, whole |
| Rosewater, triple | 1.50 —12.00 3.50 — 3.75 | Citric, crystals, bbls | | Poppy Heads |
| Rosewater, triple | 3.50 - 3.75 | Powderedtb. | 88 | Poppy Heads Sandalwood |
| Salicin, bulk | .90 — .95 | Second handstb. | | Ground |
| Santonin, cryst., U.S.Ptb. | | Cresylic, 95-100 p.cgal. | .75 — .85 | Scammony, resin Powdered |
| Powdered | 100.00 30% | Formic, 75 p.c., techtb. Gallic, U.S.P., bulktb. | | Spermaceti, blocks |
| Silver nitrate, 500 oz. lotsoz. | 30½ .79½ .80% | Glycerophosphorie, 25 p.cfb. | 1.40 — 1.45 — — 2.50 | Storax, liquid cases Tamarinds, bbls |
| Powdered b. Seidlitz Mixture, bbls. b. Silver nitrate, 500 oz. lotsoz. Soap, Castile, white puretb. Powd., U.S.P., bblstb. | .26 — .30 .38 — .40 | Hydriodic, sp. g. 1,150oz. | 19 | Kegs |
| | .1920 .1516 .2529 | Hydrofluoric, see Heavy Chemi | icals | BAL |
| Ordinary | .2529 | Hydrosilicofluoric, 10 p.c.tech.fb. | .4045 | Copaiba, Para |
| Benzoate, gran., U.S.Ptb. | .7577 | 20 p.c. tech | .50 — .60 | South American *Fir, Canada |
| Bromide, U.S.P., bulktb. | .7576 | U.S.P., 10 p.c | 2.40 - 2.50 .6065 | Oregon |
| Catodylate TICD Cab Dan | 1.40 | U.S.P., 10 p.c | 2.20 2.40 | Peru |
| crystals, c.b. 10 | .151/216 | Molybdic, C.Pth. | 8 50 | BAI |
| Granular, c.b. 10Ib. | $\frac{-}{-}$ $\frac{-}{-}$ $\frac{.19}{1.12}$ | Muriatic, see Heavy Chamicala | 0.00 | Angostura |
| Granular, U.S.P. gran.IX.tb. | | Vitro Muriatic | .2023 | Rosewood Back presse |
| Glycerophosphate, crystals fb. | 2.15 — 2.20 | Nitric, see Heavy Chemicals Vitro Muriatic | .32 — .35 | Barberry |
| Hypophosphite, U.S.P tb. | $\frac{1.00}{-}$ $\frac{-}{4.05}$ | Hospitoric, os-cop.c.syr.U.S.P.ID. | .3233 | Blackhaw, of root |
| | | 50 p.c. tech | .211/2231/2 | of tree |
| | .40 | Demografile manufilmed to | | *Buckthorn |
| Peroxide | .3540 13 | Pyrogallic, resublimedtb. Crystals, bottlestb. | 2.50 2.55 | *Buckthorn Calisaya |
| Recryst | .4045 | Salicylic, Bulk, U.S.P | 2.50 — 2.55 2.20 — 2.25 .52 — .55 | *Buckthorn Calisaya Cascara Sagrada Cascarilla, quils |
| Recryst | .1718 .4045 60 | Salicylic, Bulk, U.S.P | 2.50 — 2.55 2.20 — 2.25 .52 — .55 .08 — .09 | Cascara Sagrada Cascarilla, quills |
| Recryst | .1718 .4045 60 .01540154 .7576 | Salicylic, Bulk, U.S.P | 2.50 — 2.55 2.20 — 2.25 .52 — .55 .08 — .09 .06 — .061/2 — 1.30 | Cascara Sagrada Cascarilla, quils Siftings Chestnut Cinchona, red quills |
| Recryst | .1718 .4045 60 .01¼01⅓ .7576 .4045 | Salicylic, Bulk, U.S.P | 2.50 — 2.55 2.20 — 2.25 .52 — .55 .08 — .09 .06 — .06½ — — 1.30 .70 — .74 | Cascara Sagrada Cascarilla, quils Siftings Chestnut Cinchona, red quills |
| Recryst | .1718 .4045 60 .01¼01¼ .7576 .4045 3.70 65 | Salicylic, Bulk, U.S.Ptb. | 2.50 — 2.55 2.20 — 2.25 .52 — .55 .08 — .09 .06 — .061/2 — 1.30 | Cascara Sagrada Cascarilla, qui'ls Siftings Chestnut Cinchona, red quills Broken *Yellow "quills" *Roken |
| Recryst. b. Dried b. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) b. Strontium Brom. Cryst., blk. b. Carbonate, pure b. Iodide, bulk b. Salicylate, U.S.P. bb. Strychnine Alkd., cryst. bc. | .17 — .18 .40 — .45 — — .60 .75 — .76 .40 — .45 — — 3.70 — — .65 — — 1.80 | Crystals, bottles b. Salicylic, Bulk, U.S.P. b. buppuric, C.P. b. Sulphurous b. Tannic, U.S.P. b. Tartaric Crystals, U.S.P. b. Powdered, U.S.P. b. Trichloracetie, U.S.P. b. | 2.50 — 2.55 2.20 — 2.25 .52 — .55 .08 — .09 .06 — .06½ — — 1.30 .70 — .74 .71 — .74½ 4.40 — 4.50 | Cascara Sagrada Cascarilla, qui'ls Siftings Chestnut Cinchona, red quills Broken *Yellow "quills" *Roken |
| Recryst. B. Dried tb. Salicylate, U.S.P. tb. Sulph. (Glauber's Salt). tb. Strontium Brom. Cryst., blk. tb. Carbonate, pure tb. Iodide. bulk tb. Salicylate, U.S.P. tb. Strychnine Alkd., cryst. oz. Acetate oz. Hyoophosphite oz. | .1718 .4045 60 .01¼01¼ .7576 .4045 3.70 65 1.80 1.80 - 2.00 | Salicylic, Bulk, U.S.P | 2.50 — 2.55 2.20 — 2.25 .52 — .55 .08 — .09 .06 — .06½ — — 1.30 .70 — .74 .71 — .74½ 4.40 — 4.50 | Cascara Sagrada Cascarilla, quilis Siftings Chestnut Cinchona, red quilis Broken "Yellow 'quilis" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibo, yellow, j |
| Recryst. 15. Dried 15. Dried 15. Salicylate, U.S.P. 15. Sulph. (Glauber's Salt) 15. Strontium Brom. Cryst., blk. 15. Carbonate, pure 15. Iodide, bulk 15. Salicylate, U.S.P 15. Strechnine Alkd., cryst 02. Acetate 15. Hypophosphite 02. Hypophosphite 02. | .17 — .18 .40 — .45 — — .60 .75 — .76 .40 — .45 — — 3.70 — — .65 — — 1.80 | Crystals, bottles b. Salicylic, Bulk, U.S.P. b. buppuric, C.P. b. Sulphurous b. Tannic, U.S.P. b. Tartaric Crystals, U.S.P. b. Powdered, U.S.P. b. Trichloracetie, U.S.P. b. | 2.50 — 2.55 2.20 — 2.25 .52 — .55 .08 — .09 .06 — .06½ — — 1.30 .70 — .74 .71 — .74½ 4.40 — 4.50 | Cascara Sagrada Cascarilla, quilis Siftings Chestnut Cinchona, red quilis Broken "Yellow 'quilis" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibo, yellow, j |
| Recryst. B. Dried tb. Salicylate, U.S.P. tb. Sulph. (Glauber's Salt). tb. Strontium Brom. Cryst., blk. tb. Carbonate, pure tb. Salicylate, U.S.P. tb. Salicylate, U.S.P. tb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hyporphosphite oz. Nitrate oz. Sulphate, crystals, bulk. oz. | .1718 .4045 60 .01¼01¼ .7576 .4045 3.70 65 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 | Crude Drugs | 2.50 - 2.55 2.20 - 2.25 .5255 .0809 .06061/4 1.30 .7074 4.40 - 4.50 | Cascara Sagrada Cascaralla, quils Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, ba "Powdered, boxes "Maracaibu, yellow, j Condurango Cotton Root Cramo (true) |
| Recryst. B. Dried tb. Salicylate, U.S.P. tb. Sulph. (Glauber's Salt). tb. Strontium Brom. Cryst., blk. tb. Carbonate, pure tb. Iodide. bulk tb. Salicylate, U.S.P. tb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Nitrate oz. Sulphate, crystas, bulk oz. | .1718 .4045 60 .01¼01¼ .7576 .4045 3.70 65 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 | Crystals, bottles b. Salicylic, Bulk, U.S.P. b. buppuric, C.P. b. Sulphurous b. Tannic, U.S.P. b. Tartaric Crystals, U.S.P. b. Powdered, U.S.P. b. Trichloracetie, U.S.P. b. | 2.50 - 2.55 2.20 - 2.25 .5255 .0809 .06061/4 1.30 .7074 4.40 - 4.50 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Clnchona, red quills. Broken "Yellow "quilis" "Broken "Loxa, pale, bs. "Powdered, boxes "Maracaibo, yellow, Condurango Cotton Root Cramp (true) Cramp (true) Cramp (co-called) |
| Recryst. B. Dried tb. Salicylate, U.S.P. tb. Sulph. (Glauber's Salt). tb. Strontium Brom. Cryst., blk. tb. Carbonate, pure tb. Salicylate, U.S.P. tb. Salicylate, U.S.P. tb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hyporhosphite oz. Nitrate oz. Sulphate, crystas, bulk oz. | .1718 .4045 60 .01¼01¼ .7576 .4045 3.70 65 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 | Crude Drugs MISCELLANEO | 2.50 - 2.55 2.20 - 2.25 5.5255 .0809 1.30 .7074 .7174½ 4.40 - 4.50 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quilis. Bricken "Yellow "quilis" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding |
| Recryst. B. Dried tb. Salicylate, U.S.P. tb. Sulph. (Glauber's Salt). tb. Strontium Brom. Cryst., blk. tb. Carbonate, pure tb. Iodide. bulk tb. Salicylate, U.S.P. tb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Nitrate oz. Sulphate, crystals, bulk oz. | .1718 .4045 60 .01¼01¼ .7576 .4045 3.70 65 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 1.80 | Crude Drugs | 2.50 - 2.55 2.20 - 2.25 5.5255 .0809 1.30 .7074 .7174½ 4.40 - 4.50 | Cascara Sagrada Cascara Sagrada Cascarilla, quills Siftings Chestnut Clnchona, red quills. Broken "Yellow "quills" "Broken "Loxa, pale, bs. "Powdered, boxes "Maracaibo, yellow, Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt). bb. Strontium Brom. Cryst., blk. fb. Carbonate, pure bb. Iodide, bulk bb. Salicylate, U.S.P. bb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Hydrochloride oz. Sulphate, crystals, bulk. oz. Sulphate, crystals, bulk. oz. Sulphate, crystals, bulk. oz. Sulphate, bb. Sulphonethylmethane, U.S.P. bb. Sulphonethylmethane, U.S.P. bb. Sulphonethylmethane, U.S.P. bb. Sulphonethane, U.S.P. bb. | .17 — .18 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .75 — .76 .40 — .76 .40 — .45 .40 — .180 .40 — .1.80 .40 — .1.80 .41 .33 — .40 .33 — .40 .35 — .40 .36 — .40 .37 — .40 .38 — .40 .40 — .40 | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 — 2.55 2.20 — 2.25 5.2 — 5.5 .08 — .09 .06 — .065/ ₂ — 1.30 .70 — .74 .71 — .74/ ₂ 4.40 — 4.50 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs. "Powdered, boxes "Amaracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) bb. Strontium Brom. Cryst., blk. fb. Carbonate, pure fb. Iodide, bulk bb. Salicylate, U.S.P bb. Strychnine Alkd., cryst oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Hydrochloride oz. Sulphate, crystals, bulk oz. Sulphate, crystals, bulk oz. Sulphate, crystals, bulk oz. Sulphate, crystals, bulk oz. bulphonethylmethane, U.S.P.fb. 16 sulphonethylmethane, U.S.P.fb. 16 sulphonethane, U.S.P.fb. 16 | .17 — .18 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .75 — .76 .40 — .76 .40 — .45 .40 — .180 .40 — .1.80 .40 — .1.80 .41 .33 — .40 .33 — .40 .35 — .40 .36 — .40 .37 — .40 .38 — .40 .40 — .40 | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 - 2.55 2.20 - 2.25 5.255 .0809 .06065/2 .7074 .7174/2 4.40 - 4.50 US .8586 80 75 .3540 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs "Powdered, boxes "Aracaiba, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt). bb. Strontium Brom. Cryst., blk. fb. Carbonate, pure bb. Iodide. bulk bb. Salicylate, U.S.P. bb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Hydrochloride oz. Sulphate, crystals, bulk. oz. Sulphate, crystals, bulk. oz. Sugar of Milk, Powder bb. Sulphonal, 100-oz. lots Sulphonethylmethane, U.S.P.fb. 16 Sulphonmethane, U.S.P.fb. 16 Sulphon. 101 bbs 100 bs. 2 | .17 — .18 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .75 — .76 .40 — .76 .40 — .45 .40 — .180 .40 — .1.80 .40 — .1.80 .41 .33 — .40 .33 — .40 .35 — .40 .36 — .40 .37 — .40 .38 — .40 .40 — .40 | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 — 2.55 2.20 — 2.25 5.2 — 5.5 .08 — .09 .06 — .065/ ₄ -70 — .74 .71 — .74/ ₂ .71 — .74/ ₂ .74 — 4.50 US .85 — .86 — .80 — .75 .35 — .40 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs "Powdered, boxes "Aracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) bb. Strontium Brom. Cryst., blk. fb. Carbonate, pure fb. Iodide, bulk bb. Salicylate, U.S.P. bb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Hydrochloride oz. Sulphate, crystals, bulk. oz. Sulgar of Milk, Powder bb. Cartons, 1 lb. bb. Luphonal, 100-oz. lots bb. Julphonethylmethane, U.S.P. fb. Sulphonethylmethane, U.S.P. fb. Sulphonethane oz. Pb. Sulphur, roll, bbls 100 fbs. 2 Flour, 100 p.c. pure 100 fbs. 3 Flowers, 100 p.c. pure 100 fbs. 3 | 1.7 — 1.8 40 — 45 — .60 — .75 — .76 40 — .75 — .76 — .76 —45 —80 —90 — .85 — .90 — .85 — .90 — .85 — .90 — .95 — .340 — .30 | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 — 2.55 2.20 — 2.25 5.2 — 5.5 .08 — .09 .06 — .063/ ₄ -70 — .74 .71 — .74/ ₂ 4.40 — 4.50 US .85 — .86 — — .80 — — .75 .35 — .40 .35 — .40 .40 — .45 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quilis Breken "Yellow "quilis" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel Mezereon Oak, red White Orange Peel, bitter. |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) bb. Strontium Brom. Cryst., blk. bb. Carbonate, pure bb. Iodide. bulk bb. Salicylate, U.S.P bb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Hydrochloride oz. Sulphate. crystals, bulk. oz. Sulphate. crystals, bulk. oz. Sulphoatel, 100-oz. lots bb. Cartons, 1 lb bb. Julphonethylmethane, U.S.P. bb. is ulphonethylmethane, U.S.P. bb. is ulphonethene. U.S.P. bb. is ulphonethene. U.S.P. bb. is ulphonethene. U.S.P. bb. is provers, 100 p.c. pure. 100 bs. 3 Flowers, 100 p.c. pure. 100 bs. 3 Flowers, 100 p.c. pure. 100 bs. 3 Flowers, 100 p.c. pure. 100 bs. 3 Precip. U.S.P. bb. Lac Sulphur bb. Lartar Emetic, tech. bb. | 1.7 — 1.8 40 — 45 — .60 — .75 — .76 40 — .75 — .76 40 — .85 —80 — | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 - 2.55 2.20 - 2.25 5.5255 .08065/4 1.30 .7074 .71741/4 4.40 - 4.50 US .8586 80 75 .3540 .3540 .4045 10.00 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quilis Breken "Yellow "quilis" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel Mezereon Oak, red White Orange Peel, bitter. |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) bb. Strontium Brom. Cryst., blk. bb. Carbonate, pure bb. Lodide. bulk bb. Salicylate, U.S.P bb. Strychnine Alkd., cryst. oz. Hypophosphite oz. Hydorchloride oz. Hydrochloride oz. Sulphate crystals, bulk. oz. Sugar of Milk, Powder bb. Cartons, 1 lb bb. Lodibonnethane bb. Lodibonnethane bb. Sulphonethylmethane, U.S.P. bb. Sulphonethylmethane, U.S.P. bb. Sulphonethylmethane bb. Selowers, 100 p.c. pure 100 bs. Flour, 100 p.c. pure 100 bs. Flour, 100 p.c. pure 100 bs. Selowers, 100 p.c. pure 100 bs. | 1.7 — 1.8 40 — 45 — .60 — .75 — .76 40 — .75 — .76 40 — .85 —80 — | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 — 2.55 2.20 — 2.25 5.2 — 5.5 .08 — .09 .06 — .063/ ₄ -70 — .74 .71 — .74/ ₂ 4.40 — 4.50 US .85 — .86 — — .80 — — .75 .35 — .40 .35 — .40 .40 — .45 | Cascara Sagrada Cascara Sagrada Cascarilla, quilis Siftings Chestnut Cinchona, red quilis. Bricken "Yellow "quilis" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibu, yellow, j Condurango Cotton Rot Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel Mezereon Oak, red White Orange Peel, bitter. Malaga, Sweet Trieste, sweet |
| Recryst. bb. Dried br. Dried br. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) bb. Strontium Brom. Cryst., blk. bb. Carbonate, pure b. Iodide. bulk bb. Salicylate, U.S.P bb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Hydrochloride oz. Sulphate. crystals, bulk. oz. Sulphate. crystals, bulk. oz. Sulphoral, 100 bb. Lugar of Milk, Powder bb. Cartons, 1 lb bb. Julphonal, 100 bts bb. Julphonethylmethane, U.S.P. bb. Sulphonethylmethane, U.S.P. bb. Sulphur, roll, bbls 100 bs. 2 Flour, 100 p.c. pure 100 bs. 3 Flowers, 100 p.c. pure 100 bs. 3 Freeip., U.S.P. bb. Lac Sulphur bb. Artar Emetic, tech. bb. | 1.7 — 1.8 40 — 45 — .60 — .75 — .76 40 — .75 — .76 40 — .85 —80 — | Crude Drugs MISCELLANEO Agar, Agar, No. 1 tb. No. 3 tb. No. 3 tb. Almonds, bitter tb. Sweet tb. Creys alls. Care tb. Channer tb. Crude Drugs MISCELLANEO Agar, Agar, No. 1 tb. No. 2 tb. No. 3 tb. Almonds, bitter tb. Sweet tb. Meal tb. Ambergris, black oz. Grey tb. | 2.50 - 2.55 2.20 - 2.25 5.255 .0809 .06065/4 .7074 .7174/4 4.40 - 4.50 US .8586 80 75 .3540 .3540 .4045 10.00 23.00 | Cascara Sagrada Cascaralla, quils Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs. "Powdered, boxes "Maracaibo, yellow, orange (condurango) Cotton Root Cramp (frue) Cramp (so-called) Dogwood, Jamaica "Eim, grinding Select bdls. Hemlock Lemon Peel Mezercon Oak, red White Orange Peel, bitter Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) bb. Strontium Brom. Cryst., blk. bb. Carbonate, pure bb. Lodide. bulk bb. Salicylate, U.S.P bb. Strychnine Alkd., cryst. oz. Hypophosphite oz. Hydorchloride oz. Hydrochloride oz. Sulphate crystals, bulk. oz. Sugar of Milk, Powder bb. Cartons, 1 lb bb. Lodibonnethane bb. Lodibonnethane bb. Sulphonethylmethane, U.S.P. bb. Sulphonethylmethane, U.S.P. bb. Sulphonethylmethane bb. Selowers, 100 p.c. pure 100 bs. Flour, 100 p.c. pure 100 bs. Flour, 100 p.c. pure 100 bs. Selowers, 100 p.c. pure 100 bs. | 1.7 — 1.8 40 — 45 — .60 — .75 — .76 40 — .75 — .76 40 — .85 —80 — | Agar, Agar, No. 1 | 2.50 - 2.55 2.20 - 2.25 5.5255 .0809 .06065/4 .7174 .7174/4 4.40 - 4.50 US .8586 80 75 .3540 .4045 10.00 23.00 .3032 .3335 2.00 - 2.25 | Cascara Sagrada Cascara Sagrada Cascarilla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel Mczercon Oak, red White Orange Peel, bitter. Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern Pomegranate of Root. |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) bb. Strontium Brom. Cryst., blk. bb. Carbonate, pure b. Iodide. bulk bb. Salicylate, U.S.P bb. Salicylate, U.S.P bb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Hydrochloride oz. Sulphate. crystals, bulk. oz. Sugar of Milk, Powder bb. Cartons, 1 lb bb. Lugar of Milk, Powder bb. Sulphonal, 100-oz. lots bb. sulphonethylmethane, U.S.P bb. sulphonethylmethane, U.S.P bb. sulphony roll, bbls 100 bbs. 3 Flowers, 100 p.c. pure 100 bs. 3 Flowers, 100 p.c. pure 00 bs. 3 Frecip. U.S.P bb. Lac Sulphur | .17 — .18 .40 — .45 — .60 .1014—.0114 .75 — .76 .40 — .45 — .76 .40 — .45 — .45 .40 — .45 — .45 .40 — .180 .40 — .1.80 .40 — .1.80 .40 — .1.80 .41 — .1.80 .40 — . | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 — 2.55 2.20 — 2.25 5.2 — 5.5 .08 — .09 .06 — .065/ ₄ .71 — .74 .71 — .74/ ₂ 4.40 — 4.50 US .85 — .86 — — .80 — — .75 .35 — .40 .40 — .45 — — .23.00 .30 — .32 .33 — .32 .33 — .35 .200 — 2.23 .00 — .09 | Cascara Sagrada Cascara Sagrada Cascarilla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs. "Powdered, boxes "Maracaibu, yellow.] Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel Mezereon Oak, red White Orange Peel, bitter. Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern Pomegranate of Root. of Fruit Sassafras, ordinary |
| Recryst. bb. Dried bb. Salicylate, U.S.P. bb. Sulph. (Glauber's Salt) bb. Strontium Brom. Cryst., blk. bb. Carbonate, pure b. Iodide. bulk bb. Salicylate, U.S.P bb. Salicylate, U.S.P bb. Strychnine Alkd., cryst. oz. Acetate oz. Hypophosphite oz. Hydrochloride oz. Hydrochloride oz. Sulphate. crystals, bulk. oz. Sugar of Milk, Powder bb. Cartons, 1 lb bb. Lugar of Milk, Powder bb. Sulphonal, 100-oz. lots bb. sulphonethylmethane, U.S.P bb. sulphonethylmethane, U.S.P bb. sulphony roll, bbls 100 bbs. 3 Flowers, 100 p.c. pure 100 bs. 3 Flowers, 100 p.c. pure 00 bs. 3 Frecip. U.S.P bb. Lac Sulphur | .17 — .18 .40 — .45 — .60 .1014—.0114 .75 — .76 .40 — .45 — .76 .40 — .45 — .45 .40 — .45 — .45 .40 — .180 .40 — .1.80 .40 — .1.80 .40 — .1.80 .41 — .1.80 .40 — . | Crude Drugs MISCELLANEO Agar, Agar, No. 1 tb. **No. 2 tb. No. 3 tb. Almonds, bitter tb. Sweet tb. Meal tb. Ambergris, black oz. Grey tb. Crude Drugs tb. **No. 2 tb. No. 3 tb. **No. 3 tb. Almonds, bitter tb. Sweet tb. Meal tb. Ambergris, black oz. Grey tb. Powdered tb. Balm of Gilead Buds tb. Burgundy Pitch, Dom tb. Cantharides, Chinese tb. | 2.50 - 2.55 2.20 - 2.25 5.255 .0809 .06065/ ₄ .7174 .7174/ ₂ 4.40 - 4.50 US .8586 80 75 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3690 .3032 .3335 .4025 .9025 .9026 .9090 .9090 .9090 .9090 .9090 .9090 .9090 .9090 .9090 .9090 .9090 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs. "Powdered, boxes "Aracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel Mezercon Oak, red White Orange Peel, bitter. Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern Pomegranate of Root. of Fruit Sassafras, ordinary Select |
| Recryst. b. Dried b. Dried b. Salicylate, U.S.P. b. Sulph. (Glauber's Salt). b. Strontium Brom. Cryst., blk. b. Carbonate, pure b. Iodide, bulk b. Salicylate, U.S.P. b. Salicylate, U.S.P. b. Salicylate, U.S.P. b. Strychnine Alkd., cryst. oz. Hypophosphite oz. Hypophosphite oz. Hydrochloride oz. Nitrate oz. Sulphate, crystals, bulk. oz. Sugar of Milk, Powder b. Cartons, 1 bb. Sulphonat, 100 oz. lots b. Sulphonethylmethane, U.S.P. b. Sulphonethylmethane, U.S.P. b. Sulphonethylmethane, U.S.P. b. Sulphonethane U.S.P. b. Sulphonethane U.S.P. b. Sulphonethane U.S.P. b. Sulphonethylmethane, U.S.P. b. Sulphonethane U.S.P. b. Sulphonethane U.S.P. b. Sulphonethane U.S.P. b. Sulphonethylmethane, U.S.P. b. Lac Sulphur bls. d. Lac Sulphur bls. d. Lac Sulphur bb. Lac Sulphur bb | .17 — .18 .40 — .45 — .60 .1014—.0114 .75 — .76 .40 — .45 — .76 .40 — .45 — .45 .40 — .45 — .45 .40 — .180 .40 — .1.80 .40 — .1.80 .40 — .1.80 .41 — .1.80 .40 — . | Agar, Agar, No. 1 | 2.50 - 2.55 2.20 - 2.25 5.5255 .08065/4 1.30 .7074 .71741/4 4.40 - 4.50 US .8586 80 75 .3540 .3540 .4045 10.00 - 23.00 .3032 .0809 1.40 - 1.45 1.55 | Cascara Sagrada Cascaralla, quils Siftings Chestnut Cinchona, red quills. Breken "Yellow 'quills" "Broken "Loxa, pale, bs. "Powdered, boxes "Maracaibu, yellow, orange (condurango) Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Eim, grinding Select bdls. Hemlock Lemon Peel Mezercon Oak, red White Orange Peel, bitter Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern Pomegranate of Root. of Fruit Sassafras, ordinary Select Simaruba |
| Recryst. Dried | .17 — .18 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .75 — .76 .40 — .76 .40 — .76 .40 — .76 .40 — .180 .40 — .1.80 .40 — .1.80 .40 — .1.80 .41 — .1.80 .42 — .1.80 .43 — .1.80 .40 — .1.80 .41 — .180 .42 — .1.80 .43 — .1.80 .44 — .15 .45 — .67 .47 — .77 .47 — | Crude Drugs MISCELLANEO Agar, Agar, No. 1 tb. **No. 2 tb. No. 3 tb. Almonds, bitter tb. Sweet tb. Meal tb. Ambergris, black oz. Grey tb. Crude Drugs tb. **No. 2 tb. No. 3 tb. **No. 3 tb. Almonds, bitter tb. Sweet tb. Meal tb. Ambergris, black oz. Grey tb. Powdered tb. Balm of Gilead Buds tb. Burgundy Pitch, Dom tb. Cantharides, Chinese tb. | 2.50 - 2.55 2.20 - 2.25 5.255 .0809 .06065/ ₄ .7174 .7174/ ₂ 4.40 - 4.50 US .8586 80 75 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3540 .3690 .3032 .3335 .4025 .9025 .9026 .9090 .9090 .9090 .9090 .9090 .9090 .9090 .9090 .9090 .9090 .9090 | Cascara Sagrada Cascara Sagrada Cascarilla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow 'quills" "Broken "Loxa, pale, bs. "Powdered, boxes "Maracaibo, yellow, p Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elim, grinding Select bdls. Hemlock Lemon Peel Mezercon Oak, red White Orange Peel, bitter. Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern Pomegranate of Root. of Fruit Sassafras, ordinary Select Simaruba Soap, whole Cut |
| Recryst. Dried | .17 — .18 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .76 .40 — .76 .40 — .76 .41 — .45 .42 — .45 .43 — .1.80 .44 — .1.80 .45 — .1.80 .40 — .1.80 .41 — .1.80 .42 — .1.80 .43 — .1.80 .44 — .1.80 .45 — .90 .500 — .1.40 .295 — .3.40 .50 — .1.7 .60 — .17 .10 — .17 .10 | Agar, Agar, No. 1 | 2.50 - 2.55 2.20 - 2.25 5.255 .8809 .06065/ ₄ .7174 .7174/ ₄ 4.40 - 4.50 US .8586 80 75 .3540 .3540 .3540 .3032 .3335 .0023.00 .3032 .3335 .0025/ ₆ .0020 | Cascara Sagrada Cascaralla, quils Siftings Chestnut Cinchona, red quills. Breken "Yellow 'quills" "Broken "Loxa, pale, bs. "Powdered, boxes "Maracaibo, yellow, or of the particular of the part |
| Recryst. Dried | .17 — .18 .40 — .45 — .60 .1014—.0114 .75 — .76 .40 — .45 — .76 .40 — .45 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .41 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .40 .40 — | Agar, Agar, No. 1 | 2.50 — 2.55 2.20 — 2.25 5.2 — 5.5 .88 — .09 .06 — .065/ ₄ .70 — .74 .71 — .74/ ₂ .71 — .74/ ₂ .74 — .4.0 — 4.50 US .85 — .86 — — .80 — — .75 .35 — .40 .40 — .45 — — .23.00 .30 — .223.00 .30 — .223.00 .30 — .223.00 .30 — .09 1.40 — 1.45 — — 1.55 — — 4.30 .55/ ₄ — .09 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibu, yellow, jellow, jel |
| Recryst. Dried | .17 — .18 .40 — .45 — .60 .1014 — .0114 .75 — .76 .40 — .45 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .41 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .60 — .67 .40 — .67 .40 — .67 .40 — .67 .40 — .67 .40 — .60 .41 — .60 .41 — .60 .42 — .60 .44 — .15 | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 — 2.55 2.20 — 2.25 5.2 — 5.5 .88 — .09 .06 — .063/4 .71 — .74 .71 — .74/4 .4.40 — 4.50 US .85 — .86 — — .80 — — .75 .35 — .40 .40 — .45 — — .23 .33 — .35 .200 — 2.23 .08 — .09 1.40 — 1.45 — — 1.55 — — 4.00 — — 4.30 .05/4 — .06 .05/4 — .07 .04 — .05 .04 — .05 .05/4 — .07 .04 — .05 .05/4 — .06 .05/5 — .07 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel Mezercon Oak, red White Orange Peel, bitter. Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern Pomegranate of Root. of Fruit Sassafras, ordinary Select Simaruba Soap, whole Cut Crushed Wahoo, of Root. of Tree Willow, Black White |
| Recryst. Dried | .17 — .18 .40 — .45 — .60 .1014 — .0114 .75 — .76 .40 — .45 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .41 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .60 — .67 .40 — .67 .40 — .67 .40 — .67 .40 — .67 .40 — .60 .41 — .60 .41 — .60 .42 — .60 .44 — .15 | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 - 2.55 2.20 - 2.25 2.20 - 2.25 .5255 .0809 .06065/ ₄ .7174 .7174/ ₄ 4.40 - 4.50 US .8586 80 75 .3540 .3540 .3540 .3540 .3540 .3540 .4045 10.00 - 23.00 .3035 .4045 404045 404045 404045 40 | Cascara Sagrada Cascaralla, quilis Siftings Chestnut Cinchona, red quills. Breken "Yellow "quills" "Broken "Loxa, pale, bs "Powdered, boxes "Maracaibo, yellow, j Condurango Cotton Root Cramp (true) Cramp (so-called) Dogwood, Jamaica "Elm, grinding Select bdls. Hemlock Lemon Peel Mezercon Oak, red White Orange Peel, bitter. Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern Pomegranate of Root. of Fruit Sassafras, ordinary Select Simaruba Soap, whole Cut Crushed Wahoo, of Root. of Tree Willow, Black White |
| Recryst. Dried | .17 — .18 .40 — .45 — .60 .1014—.0114 .75 — .76 .40 — .45 — .76 .40 — .45 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .45 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .41 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .180 .40 — .40 .40 — | Crude Drugs MISCELLANEO Agar, Agar, No. 1 | 2.50 — 2.55 2.20 — 2.25 5.2 — 5.5 .88 — .09 .06 — .063/4 .71 — .74 .71 — .74/4 .4.40 — 4.50 US .85 — .86 — — .80 — — .75 .35 — .40 .40 — .45 — — .23 .33 — .35 .200 — 2.23 .08 — .09 1.40 — 1.45 — — 1.55 — — 4.00 — — 4.30 .05/4 — .06 .05/4 — .07 .04 — .05 .04 — .05 .05/4 — .07 .04 — .05 .05/4 — .06 .05/5 — .07 | Barberry Bayberry Bayberry Bayberry Blackhaw, of root. of Tree Buckthorn Calicaya Cascara Sagrada Cascarilla, quil's Siftings Chestnut Cinchona, red quills. Broken "Yellow "quil's" "Broken "Loxa, pale, bs. "Powdered, boxes "Prowdered, boxes "Aracaibo, yellow, j Condurango Cotton Root Cramp (rue) Cramp (so-called) Dogwood, Jamaica "Eim, grinding Select bdls. Hemlock Lemon Peel Malaga, Sweet Trieste, sweet Prickly Ash, Southern Northern Pomegranate of Root. of Fruit Sassafras, ordinary Select Simaruba Soap, whole Cut Crushed Wahoo, of Root. of Tree Willow, Black White White Pipelar Witch Hazel Witch Poplar Witch Hazel |

| Cuttlefish Bones, Triestetb. | CA |
|--|--|
| l lewelers, large | 1.70 - 1.75 |
| Smallb. | 1.55 - 1.60 |
| Dan | .5560 .3540 |
| Reedsb. | 2.25 - 2.50 |
| Spanishtb. | 4.75 4.75 |
| Bragon's Blood, Mass. 1b, Reeds bb, Ergot, Russian bb, Spanish bb, Grains of Paradise bb, Hops, N. Y., prime bb, Pacific Coast, prime bb, Isinglass, American (see Agar | 35 |
| Pacific Coast, prime | .8387 |
| Isinglass, American (see Agar A | lgar) |
| Kola Nuts, West Indiestb. | .1921 |
| Honey, Califb. | .22 - 23 |
| Russian b. Kola Nuts, West Indies b. Honey, Calif. b. Leeches C. Manna, large flake. bb. Small flake bb. Moss, Iceland bb. Irish bb. | .75 — 12.00 .75 — .80 |
| Small flaketb. | .5860 |
| Irishtb. | .2123 $.1115$ |
| Musk, pods, Caboz. | .1115 15.00 -16.00 |
| Grain, Caboz. | 25.00 —26.00 23.00 —25.00 |
| Description | 45.00 —50.00 — —30.00 |
| | .08081/2 |
| Powderedth. | .13131/2 |
| Poppy Heads | .4850 |
| Ground | .5560 |
| Scammony, resin | 2.95 - 3.20 3.05 - 3.30 |
| Spermaceti, blocksth. | 3.05 — 3.30 .29 — .30 |
| Spermaceti, blocks fb. Storax, liquid cases fb. Tamarinds, bbls fb. | 1.50 - 1.60 |
| Kegsper keg | .111/4 |
| BALSAMS | 0.20 |
| Copaiba, Para tb. South American tb. *Fir, Canada tb. Oregon gal. Peru tb. | .471/250 |
| South American | .60 — .65 — —13.75 |
| Oregongal. | 1.75 - 2.00 |
| Peru | $\frac{-}{1.55}$ $\frac{-}{-}$ $\frac{4.50}{1.60}$ |
| | 1.00 |
| BARKS | |
| Angostura | .2330 .1721 |
| Barberrytb. | ─ − 1.00 |
| | |
| Blackhaw of rootth | .50 — .60 |
| Barberry b. Bayberry b. Blackhaw, of root b. of Tree b. | .50 — .60 .60 — .68 .35 — .40 |
| Bayberry D. | .50 — .60 .60 — .65 .35 — .40 .60 — .66 |
| Buckthorn 15. | .50 — .60 .60 — .68 .35 — .40 |
| of Tree | .50 — .60 .60 — .68 .35 — .40 .60 — .68 .95 — 1.00 .15 — .17 |
| of Tree | .50 — .60 .60 — .66 .35 — .40 .60 — .66 .95 — 1.00 .15 ÷ .17 — — — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Chestnut D. Clochona red quills D. | .50 — .60 .60 — .68 .35 — .40 .60 — .68 .95 — 1.00 .15 — .17 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Chesnut D. Chebona, red quills D. Sycken D. Sycken D. | .50 — .60 .60 — .66 .35 — .40 .60 — .66 .95 — 1.00 .15 — .17 — — — .10 — .104 1.00 — 1.10 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Chesnut D. Chebona, red quills D. Sycken D. Sycken D. | .50 — .60 .60 — .66 .35 — .40 .60 — .66 .95 — 1.00 .15 — .17 — — — .10 — .104 1.00 — 1.10 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara Sagrada D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Cinchona, red quills D. Broken D. *Yellow "quills" D. *Broken D. *Powdered, boxes D. *Powdered, boxes D. | .50 — .60 .60 — .66 .35 — .40 .60 — .66 .95 — 1.00 .15 — .17 — — — .10 — .104 1.00 — 1.10 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara Sagrada D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Cinchona, red quills D. Broken D. *Yellow "quills" D. *Broken D. *Powdered, boxes D. *Powdered, boxes D. | .5060 .3540 .3540 .6065 .95 - 1.00 .15 + .17 .10104 1.00 - 1.10 .6065 .10104 |
| of Iree D. Buckthorn D. Calciaya D. Cascara Sagrada D. Cascara Sagrada D. Cascarilla, quiris D. Siftings D. Chestnut D. Chestnut D. Powdered Quills D. *Broken D. *Yellow "quills" D. *Broken D. *Broken D. *Broken D. *Browdered, boxes D. *Maracaibu, yellow powd. M. Condurango D. Cotton Reet D. | .5060 .3540 .3540 .95 - 1.00 .1517 10104 1.0016 .6066 6066 .10104 .2526 |
| of Iree D. Buckthorn D. Calciaya D. Cascara Sagrada D. Cascara Sagrada D. Cascarilla, quiris D. Siftings D. Chestnut D. Chestnut D. Powdered Quills D. *Broken D. *Yellow "quills" D. *Broken D. *Broken D. *Broken D. *Browdered, boxes D. *Maracaibu, yellow powd. M. Condurango D. Cotton Reet D. | .5060 .3540 .3540 .95 - 1.00 .15 + .17 |
| of Iree D. Buckthorn D. Calciaya D. Cascara Sagrada D. Cascara Sagrada D. Cascarilla, quiris D. Siftings D. Chestnut D. Chestnut D. Yellow "quills" D. "Broken D. "Broken D. "Broken D. "Browen D. "Browdered, boxes D. "Powdered, boxes D. "Maracaibu, yellow powd. M. Condurango D. Cotton Reet D. | .5060 .6068 .3540 .6066 .95 - 1.00 .1517 16 .10164 .6065 65 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Chebnoa, red quills D. Broken D. *Yellow "quills" D. *Broken D. *Broken D. *Broken D. *Broken D. *Coxan, pale, bs. D. *Maracaibu, yellow, powd. M. Condurango D. Cotton Root D. Cramp (true) D. Cramp (true) D. Cramp (so-called) D. Dogwood, Jamaica D. *Elm, grinding D. *Elm, grinding D. | .5060 .3540 .3540 .3540 .95 - 1.00 .15 + .17 .10104 .1006660666065 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Chebnoa, red quills D. Broken D. *Yellow "quills" D. *Broken D. *Broken D. *Broken D. *Broken D. *Coxan, pale, bs. D. *Maracaibu, yellow, powd. M. Condurango D. Cotton Root D. Cramp (true) D. Cramp (true) D. Cramp (so-called) D. Dogwood, Jamaica D. *Elm, grinding D. *Elm, grinding D. | .5060 .6066 .3540 .95 - 1.00 .1517 10104 .6066 6066 6066 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Chebnoa, red quills D. Broken D. *Yellow "quills" D. *Broken D. *Broken D. *Broken D. *Broken D. *Coxan, pale, bs. D. *Maracaibu, yellow, powd. M. Condurango D. Cotton Root D. Cramp (true) D. Cramp (true) D. Cramp (so-called) D. Dogwood, Jamaica D. *Elm, grinding D. *Elm, grinding D. | .50 — .60 .35 — .40 .35 — .40 .95 — 1.00 .15 — .17 — .10 — .104 .100 — 1.04 .25 — .26 .50 — .55 .50 — .55 .50 — .55 .50 — .55 .50 — .55 .50 — .68 — . — . — . — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascarilla, quilis D. Siftings D. Chebnoa, red quills D. Broken D. *Yellow "quills" D. *Broken D. *Broken D. *Broken D. *Broken D. *Coxan, pale, bs. D. *Maracaibu, yellow, powd. M. Condurango D. Cotton Root D. Cramp (true) D. Cramp (true) D. Cramp (so-called) D. Dogwood, Jamaica D. *Elm, grinding D. *Elm, grinding D. | .50 — .60 .35 — .40 .35 — .40 .95 — 1.00 .15 — .17 — .10 — .104 .100 — 1.04 .25 — .26 .50 — .55 .50 — .55 .50 — .55 .50 — .55 .50 — .55 .50 — .68 — . — . — . — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara S | .50 — .60 .35 — .40 .95 — 1.00 .15 — .17 — .10 — .104 1.00 — .104 .25 — .26 .50 — .60 — . — . .10 — .104 .25 — .26 .50 — .55 .50 — .55 |
| of Iree D. Buckthorn D. Calciasya D. Cascara Sagrada D. Cascara Sagrada D. Cascara Sagrada D. Siftings D. Chestnut D. Chestnut | .50 — .60 .35 — .40 .35 — .40 .95 — 1.00 .15 — .17 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Canchona, red quilis D. Cinchona, red quilis D. Cinchona, red quilis D. Broken D. Broken D. Broken D. Broken D. Broken D. Cascara D. Cascara | .50 — .60 .35 — .40 .35 — .40 .95 — 1.00 .15 — .17 — .10 — .104 1.00 — 1.04 1.00 — .104 .25 — .25 .50 — .55 .50 — .55 .50 — .55 .50 — .55 .50 — .10 — .75 — .80 .76 — .80 .77 — .88 .78 — .89 .79 — .98 .70 — .98 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara Sagrada D. Cascara Sagrada D. Cascara Sagrada D. Chehona, red quills D. Breken D. Breken D. Broken D. Cramp (so-called) D. Cramp (so-called) D. Cramp (so-called) D. Cramp (so-called) D. Broken D. Brokely Ash, Southern D. Prickly Ash, Southern D. Broken D. Broken D. Brokely Ash, Southern D. Broken D. Brokely Ash, Southern D. Broken D. Broken D. Broken D. Brokely Ash, Southern D. Broken D. | .50 — .60 .60 — .68 .35 — .40 .60 — .66 .95 — 1.00 .15 — .17 — — — — — — — — — — — — — — — — — — — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cancona, red quilis D. Cascara D. | .5060 .3540 .3540 .95 - 1.00 .15 + .1710104 .1.00 - 1.04 .2525 .5055 |
| of Iree | .50 — .60 .35 — .40 .35 — .40 .35 — .40 .95 — 1.00 .95 — 1.00 .10 — .104 .60 — .65 — 0.9 0.9 — .10 0.9 — .10 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Siftings D. Hotestnut D. Chehona, red quills D. Broken D. "Yellow "quills" D. "Broken D. "Powdered, boxes D. "Maracaibu, yellow, powd. Maracaibu, yellow, powd. Condurango D. Cotton Root D. Cramp (so-called) D. Dogwood, Jamaica D. Select bdls. D. Hemlock D. Lemon Peel D. Mezereon D. White D. Orange Peel, bitter D. Malaga, Sweet D. Trieste, sweet D. Prickly Ash, Southern D. Pomgranate of Root D. Sassafras, ordinary D. Sassafras, ordinary D. D. Sassafras, ordinary D. D. D. D. D. Sassafras, ordinary D. D. D. D. D. D. D. D. | .50 — .60 .35 — .40 .36 — .66 .95 — 1.00 .15 — .17 — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Chehona, red quills D. Broken D. "Yeilow "quills" D. "Broken D. "Powdered, boxes D. "Powdered, boxes D. "Aracaibo, yellow powd. Cotton Root D. Cramp (rue) D. Cramp (so-called) D. Defamp (so-called) D. Defamp (so-called) D. "Elm, grinding D. "Elm, g | .50 — .60 .35 — .40 .36 — .66 .95 — 1.00 .15 — .17 — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Chehona, red quills D. Broken D. "Yeilow "quills" D. "Broken D. "Powdered, boxes D. "Powdered, boxes D. "Aracaibo, yellow powd. Cotton Root D. Cramp (rue) D. Cramp (so-called) D. Defamp (so-called) D. Defamp (so-called) D. "Elm, grinding D. "Elm, g | .50 — .60 .35 — .40 .36 — .66 .95 — 1.00 .15 — .17 — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Chehona, red quills D. Broken D. "Yeilow "quills" D. "Broken D. "Powdered, boxes D. "Powdered, boxes D. "Powdered, boxes D. "Amaracaiba, yellow, powd. Condurango D. Cotton Root D. Cramp (so-called) D. Defamp (so-called) D. Defamp (so-called) D. "Elm, grinding D. "El | .50 — .60 .35 — .40 .36 — .66 .95 — 1.00 .15 — .17 — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Chehona, red quills D. Broken D. "Yeilow "quills" D. "Broken D. "Powdered, boxes D. "Powdered, boxes D. "Powdered, boxes D. "Amaracaiba, yellow, powd. Condurango D. Cotton Root D. Cramp (so-called) D. Defamp (so-called) D. Defamp (so-called) D. "Elm, grinding D. "El | .50 — .60 .35 — .40 .36 — .66 .95 — 1.00 .15 — .17 — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara D. Casca | .50 — .60 .35 — .40 .36 — .66 .95 — 1.00 .15 — .17 — |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Cascara D. Casca | .50 — .60 .35 — .40 .35 — .40 .35 — .40 .95 — 1.00 .1.5 — .17 .10 — .184 .1.60 — .66 .25 — .26 .26 — .27 .27 — .88 .28 — .29 .28 — .29 .29 — .10 .10 — .10 .23 — .24 .23 — .25 .26 — .26 .26 — .27 .27 — .88 .27 — .88 .28 — .29 .29 — .10 .10 — .10 .11 — .10 .12 — .13 .10 — .10 .12 — .13 .10 — .10 .11 — .10 .12 — .13 .13 — .44 .25 — .25 .26 — .26 .27 — .28 .28 — .29 .29 — .10 .29 — .10 .20 — .10 .21 — .21 .23 — .25 .25 — .28 .25 — .28 .25 — .38 .25 — .38 .25 — .38 .25 — .38 .26 — .39 .30 — .55 .15 — .17 .31 — .31 .30 — .35 .30 — .35 .30 — .35 .31 — .34 |
| of Iree D. Buckthorn D. Calicaya D. Cascara Sagrada D. Siftings D. Hotestnut D. Cinchona, red quills D. Broken D. *Yellow 'quills' D. *Yellow 'quills' D. *Yellow 'quills' D. *Agracaibu, yellow powd. D. *Maracaibu, yellow powd. Condurango D. Cotton Root D. Cramp (so-called) D. Cramp (so-called) D. Cramp (so-called) D. *Elm, grinding D. *Select bdls. D. *Elm, grinding D. *El | .50 — .60 .35 — .40 .35 — .40 .35 — .40 .95 — 1.00 .1.5 — .17 .1.0 — 1.04 .26 — .66 .25 — .26 .26 — .26 .27 .28 — .26 .28 — .29 .29 — .10 .10 — .10 .21 — .10 .22 — .25 .25 .26 — .29 .27 .28 — .29 .29 .29 .29 .20 .20 .20 .20 .20 .20 .20 .20 .20 .20 |

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| Asonite D. 60 Asonite | BEANS | | LEAVES AND HE | RBS | Colchicumb. | |
|--|---------------------------------|---|----------------------------------|--|---|--|
| S. John's Brand S. John's Brand D. 153 - 125 Pars D. 151 - 127 Pars D. 151 - 128 Pars D. 151 - 128 Pars D. 151 - 128 D. 152 - 129 Cute Cute Cute D. 152 - 129 Cute Cute D. 153 - 127 Tahit, Yellow Lake D. 152 - 129 Chesh ordinary D. 153 - 127 Chesh ordinary D. 155 - 149 Chesh ordina | Calabar | | *Aconitetb. | .6070 | Colombo, whole | 24 - 20 |
| Bar | St. Ignatius | 50 | Bay, trueb. | | Culver'sb. | |
| Part | St. John's Bread | | Belladonnatb. | | Dandelion, Euglishth. | .24 - % |
| Vanilla Mestean, whole 15.0 25.0 Canable, rine, isported 15.0 15. | Paratb. 1. | .15 - 1.25 | Buchu, short | 2.35 - 2.45 | Americantb. | .2122 |
| South American D. 20 | Vanilla, Mexican, wholefb. 4. | .50 - 5.50 | Cannabis, true, imported | | Cut Bermuda | |
| South American | Bourbontb. 3. | .25 — 3.50 .00 — 3.25 | American | | Echinaceatb. | 50 |
| Color Colo | South American | -25 - 3.75 | Chestnutlb. | .0607 | Galangal | |
| Catalogue December | Green Label | | *Coca, Huanucotb. | | | .1617 |
| Cubeb. ordinary | BERRIES | | Truxillo | | Geraniumtb. | 14 |
| Prickly Details Deta | Cubeb, ordinarytb. 1. | | Coniumtb. | .29 | Bleachedb. | .30 - 22 |
| | Powdered | | Damianatb. | 14 | *Ginseng, Cultivatedfb. | 3.00 - 9.00 |
| Second S | Fishtb. | .3055 | Deer Tongue | | Northwestern | 5.00 -22.00 |
| | Junipertb. | .07071/2 | Importedb. | .3032 | | |
| | Poketb | .16 — .18 | Euphorbia Pilulifera | .15 — .16 | Powdered | 6.50 - 6.75 |
| December | Saw Palmetto | 1516 | Henbane, German | | "Hellebore, Black, Imported.fb. | 1.40 - 1.50 |
| ### Arnica | Sloetb. | | *Russian | | Powderedtb. | .2325 |
| Arrica b. 40 | | E /// 9 | Hennatb. | .62 — .68 | | |
| Calenduis Ceirman | Arnicatb. | | Horehoundb. | | Powderedtb. | 3.30 - 3.50 |
| Hungarian type b. 50 -55 Lobelin b. 21 -25 Lobelin b. 23 -36 Lobelin b. 24 -45 Lobelin b. 25 -26 Lobelin b. 25 -26 Lobelin b. 26 -28 Lobelin b. 26 -28 Lobelin b. 26 -28 Lobelin b. 45 -46 | Calendula Petals | | Laurelb. | $.0808\frac{1}{2}$ | Powdered | 3.50 - 3.60 |
| Roman D. 35 -40 Clover Tops D. 11 -11 Dogwood D. 17 18 Dogwood D. 17 18 Lice D. 18 Dogwood D. 17 Lice Dogwood D. 17 Lice Dogwood D. 17 Lice Dogwood D. 18 Dogwood Dogwood Dogwood D. 18 Dogwood | Hungarian type | .50 — .55 | Liverwort | .2125 | Jalap, wholetb. | |
| Edder | Roman | 3540 | Matico | .2023 | Lady Slipperb. | 1.00 - 1.15 |
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| Alous Alou | Closed | 50 .5560 | Patchouli | | Lovage, American | .7375 |
| Alous Alou | Powd Flowers and stemsib. | .4550 | Peppermint, Americanfb. | | Mandrakeib. | |
| Select | Kousso | 60 | Prince's Pine | .21 — .22 | Musk, Russiantb. | |
| Linder, with leaves 15 | Select | .18 — .20 .26 — .28 | Pulsatillab. | | Veronatb. | .2021 |
| Mullein | Linden, with leavestb. | .35 — .37 | Queen of the Meadow b. | | Pareira Brava | .3032 |
| Mullein | Malva, blue | 00 - 1.10 | Rosemary | .1214 | Pink, true | 1.25 - 1.50 |
| Proppy red | Mullein | -68 - 1.70 | Sage. Austrian, stemlessth. | .2728 | Poke | .18 — .20 |
| Valencia D. 4.75 -15.00 | Poppy, red | | Grinding | = = = = | *Rhuharb Shensi | |
| Valencia D. 14.75 -15.00 Tilia (see Linden) GUMS | Rosemary | .6970 | Spanishtb. | .15 — .16 | Chips | === |
| Columb C | Valencia | .75 —15.00 | Senna, Alexandria, wholetb. | .75 — .80 | | |
| Aloes, Barbados | | 15 | Half Leaf | .45 — .50 | Sarsaparilla, Hondurastb. | |
| Cape | | 00 105 | Powderedtb. | | Mexicanb. | |
| Powdered Downward | Cape | .1315 | Podsb. | .1012 | Senega, Northerntb. | 2.05 - 2.25 |
| Powdered Downward | Curacao, cases | | Spearmint American | .20 — .22 | | |
| Powdered | Powdered | 95 | Squaw Vine | | Skunk Cabbage | |
| French | Powderedtb. | | Tansytb. | 15 | Stripped | .50 — .55 |
| Sorts Amber 15 15 16 16 17 20 18 16 10 27 30 30 40 350 40 40 40 40 40 40 40 | Seconds | | French | .14 — .1472 | Spikenard | |
| Penzoin, Siam hb. 80 - 1.00 | Sorts Ambertb. | | Uva Ursitb. | | Stillingiatb. | 19 |
| ROOTS Aleppy th. 0846 - 90 | Asafoetida, whole, U.S.Pfb. 3. | .40 - 3.50 | Wormwood importedfb. | .14 — .15 | | |
| Camphor, ref. See Pg. 28 Col. 2 Catechu | Benzoin, Siam | .80 - 1.00 | | .14 — .15 | Aleppytb. | .083/409 |
| Catechu | Camphor, ref. See Pg. 28 Col. 2 | | | 90 | Unicorn false (Helonias)th. | .5560 |
| Euphorbium | Catechu | .20 - 1.25 | German | | True (Aletris)tb. | .95 — 1.10 .55 — .58 |
| Sambarum 1.0 | Euphorbiumfb. | .28 — .30 | Althea, cutfb. | 85 | *English | |
| Cambor D. 11 12 Imported D. 59 69 Gamboge D. 1.85 1.90 Gamboge D. 1.95 G | Galbanum | .38 — 1.45 | | | *Japanese | 1.25 |
| Arnica Darwood, American Darwood, Americ | Gambier | .11 — .12 | Importedtb. | .59 — .69 | Yellow Docktb. | |
| Mastic th. 1.00 1.05 Mastic th. 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 Mastic th. 1.00 1. | Guaiseb. | .70 — 1.00 | Arrowroot, American | .85 — 1.00 | | |
| Marric 10 10 10 10 10 10 10 1 | Kino | .4959 | Bermuda | 60 | Anise, Levanttb. | .2020% |
| Sorts 15. 3. 3. 3. 5. 5. 5. 5. | Myrrh, Selecttb. | .00 — 1.00 .85 — .90 | | .1012 | Star | .181/2 .181/4 |
| Olibanum, siftings | Sorts | .70 — .78 | Bearsfootfb. | 06 00 | Canary: *Spanishth. | |
| Sorts 15. | Olibanum, siftings | .15 — .16 | Berberis, Aquifolium | .1417 | Morocco | .0808% |
| Sorts 15. | Opium, See Pg. 28 Col. 3 | | Blood | .18 — .20 .83 — .35 | Caraway, African | .121/2 .13 |
| Spruce | Candagae # | | | 20 40 | Duten | .11/2 .16 |
| Storax, Art. cases | | .5555 | BlueflagIb. | .38 — .40 | Domestic | |
| Tragacanth, Aleppo arst. 15. 4.75 - 5.70 Cohosh, black | Sorts | === | Bryonia | .1819 | Cardamom, bleachedtb. | 1.50 - 2.00 |
| Initigs | Spruce | .00 - 1.50 | Burdock, Importedtb. Americantb. | .18 — .19 .16 — .17 | Domestic | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| *Nominal. *Nominal. Nominal. | Spruce | .00 - 1.50 .25 - 1.60 28.00 .75 - 5.90 | Bryonia | .18 — .19 .16 — .17 .60 — .65 .20 — .25 | Domestic | 1.50 - 2.00 .3233 2.00 - 2.10 .3940 .0544054 |
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| Germanb. | .13½ .14 | Bitter, f.f. P. A |
| Bombaytb. | | Sweet |
| Flax, wholeper bbl. | .12½— .13 | Peach Kerneltb45 |
| Canadaper obl. | | Anise, U.S.P |
| Groundtb. | .11 — .12 | I Bay |
| oenugreekb. | .040434 | Bergamot |
| Hemp, Manchurian | .09091/4 | Artincial |
| Chilianb. | .09091/2 | Bois de Rosetb. 9.00 -10. |
| ob's Tears, white | .051/05 | Cajuput, Nativetb85 - |
| arkspurb. | .28 — .30 | Ü.S.Ptb. 1.00 — 1. |
| obeliath | | Camphor, Sassafrassy |
| | .90 — .95 | Japanese, whitetb27 - |
| dustard, Bari, Brownfb. | | Caraway, Rectified bb. 5.85 - 6 Cassia, Technical bb. 2.35 - 2 Lead, Free bb. 2.45 - 2 Redistilled, U.S.P. bb. 2.85 - 2 |
| Dutchtb. | .2526 | Cassia, Technical |
| Bombay, Browntb. | .15151/2 | Redistilled, U.S.P |
| California brown | .161/17 | Cedar, Leaf |
| California brown | .081/209 | Cedar, Leaf |
| English, yellowtb. | .22221/2 | Cinners Coules have the |
| The state of the s | .2829 | Cinnamon, Ceylon, heavyfb28. |
| oppy, Dutchtb. | .5051 | Citronella, Ceylon |
| Russian blue | | Cloves, can |
| White Indian | | Bottles |
| hinne | .11111/2 | Bottlestb. 3.95 — 4. Copaiba, U.S.Ptb90 — |
| uince | 1.00 - 1.10 | *Coriander, U.S.P |
| Japanese small | 101/ | Croton |
| Domestic | .121/4 .123/4 | Cubebs, U.S.Ptb. 9.00 - 9. |
| abadilla | | Cumin |
| tramonium th | .16 — .17 .25 — .26 | Frigeron th 700 - 7 |
| outophianthus, Hispidus In | 1.55 — 1.60 | Eucalyptus, Australian, U.S.Phb. 1.00 - 1. |
| Nombe | 1.75 - 2.00 | Fennel, sweet, U.S.P tb. 2.75 - 3. |
| unflower, domestic | | Geranium, Rose Algeriantb. 8.50 - 9. |
| South American | .093410 | Bourbon (Reunion) |
| Vorm, American th. | .35 — .40 | |
| Levanttb. | 1.20 - 1.25 | Ginger |
| SPICES | | |
| | | Hemlock |
| apsicum, African podsfb. | .17 — .18 | Twice rect |
| Bombayb. | .1516 | Wood |
| Japan Caps | .19191/2 | Lavender Flowers, U.S.Pfb. 10.00 -11. |
| China Salantal | .2224 | Garden |
| China, Selected, matsth. | | Spike |
| Saigon, assortmenttb. | .4547 $.2728$ | Lemon, U.S.P |
| Mombasa | .18 — .19 | Lemongrass, Native |
| innamon, Cevlon th | .39 — .54 | Limes, Expressedtb. 3.75 — 4. Distilledtb. 1.00 — 1. |
| loves. Zanzihar # | .521/253 | Distilled |
| Ambeynas | .541/255 | Linaloe |
| | .7080 | Mace, distilled |
| inger, Africantb. | .13131/2 | Mirbane, ref., see Aromatic Chemicals Mustard, natural |
| Jamaica, white good th | .2728 | Artificial |
| Japanth | .131/2 .14 | Neroli, Digarage |
| Page, Banda, No. 1 | .44 — .47 | Petale |
| face, Banda, No. 1tb. Banda, No. 2tb. Batavia, No. 2tb. | .43 — .44 | Artificial |
| Datavia, No. 2b. | .40 — .41 | Nutmer IISP th 170 - 1 |
| utmegs, 110sb. | 271/2281/2 | Orange, bitter |
| 75s-80sb. | .31 — .32 | Sweet, West Indiantb. 3.75 - 3. |
| epper, Black Sing | .171/218 | Italian |
| White | .281/229 | Origanum, Imitationtb30 — . Orris Concreteoz. 5.00 — 5. |
| | .30 — .31 | Orris Concrete |
| WAXES | | Pennyroyal, domestic |
| ayberryb. | .5052 | Imported |
| ees, light, crude | .4344 | Imported |
| Light, refined | .4849 | Redistilled, (.S.P |
| Dark | .4748 | Petit Grain, So. Americatb. 3.75 - 4 |
| andelila | .3132 | French In 9(0) - 9 |
| arnauba, Flortb. | .95 — .96 | Pinus Sylvestris |
| No. 1, North Country fb. | .85 — .86 | Pumilio |
| No. 2, North Countryfb. | — — .65 | Rose, French |
| No. 3, Fatty Gray | .4850 | Bulgarianoz. 12.00 —17. |
| Chalky | .4548 | Artificial |
| eresin, Yellow | .14 — .15 | Rosemary |
| White | .1617 | Sassafras, natural |
| | | Artificial |
| apanb. | .20 — .21 | Savin |
| dontan, crudeb. | .35 — .36 | Spearmint |
| *Bleached | | Sprucetb90 |
| zokerite, erude, browntb. | .3536 | Tansy, Amer |
| *Greenb. | | Thyme, red, French, U.S.P. 15. 1.70 - 1. White, French 15. 2.10 - 2. |
| *Refined, white | | Wintergreen sweet high. In. 600 - 6 |
| *Domestic | | Genuine Gaultheriatb. 10.50 -10 |
| Aromestic | | Genuine Gaultheria 1b. 10.50 -10. Synthetic, U.S.P., bulk 1b Wormseed, Baltimore 1b. 6.25 - 6 |
| | | Woomsand Ralsimone H 698 _ 6 |
| Refined, vellow | | Wormsceu, Daitimore 0.20 - 0 |
| Refined, vellow | 081/2 | · wormwood, Dom |
| | .10105/2 | Wormseed, Baltimore tb. 6.25 - 6 Wormwood, Dom tb. 12.00 - 12 Ylang Ylang, Bourbon tb15 Manila tb. 25.00 -45 |

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| Aspidium (Malefern) | 10.00 | -11.00 |
| Cubeb | 7.75 | - 8.00 |
| Ginger | 4.00 | - 495 |
| Maleferntb. | - | 10.00 |
| Mullein (so-called) | 5.00 | - 58 |
| Orris, domestic | _ | -20 m |
| Importedtb. | 20.00 | -21.00 |
| Parsley Fruit (Petroselinum)fb. | 7.50 | - 100 |
| Penner black | | - 7.00 |

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| Acetophenone |
|--|
| Acetophenone |
| Anethol |
| Anisic Aldehyde, C.P |
| Benzyl Acetate |
| Benzyl Alcohol |
| Benzyl Benzoate |
| Benzyl Benzoate |
| Borneol |
| Bromostyrol |
| Cinnamic Acid |
| Cinnamic Alcohol |
| Cinnamic Aldehydetb. 7.25 - 7.50 |
| Citral |
| Citral |
| Imported |
| |
| |
| Ethyl Cinnamatetb. 6.00 - 8.00 Encalyptoltb. 1.40 - 1.65 |
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| Eugenoltb. 5.00 - 5.50 |
| Geraniol, from Citronellatb. 3.06 - 7.00 Geranyl Acetate |
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| Geranyl |
| Heliotropin |
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| Iso-Eugenol |
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| Linalol Acetate |
| Linalol Benzoatetb |
| Menthol |
| Methyl Anthranilate |
| Methyl Cinnamate |
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| Methyl Salicylate |
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| Methyl Salicylate |
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| Rhodinol |
| Imposted 10 - 30.00 |
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| Terpineol, C. P |
| Imported tb 1.70 |
| Thymol |
| Vanillin |
| Violet, artificial |
| 7.44.4 |

Heavy Chemicals

| Acetic acid, 28 p.c., bbls., Incl. | 3.75 |
|------------------------------------|--------------|
| 100 fbs. | 6.50 |
| 56 p.c., bbls100 fbs. | |
| 70 p.c., bhls100 fbs. | 7.50 |
| 30 p.c., bbls100 fbs. | 8.00 |
| Redistilled100 lbs. | 8.50 |
| Pure100 fbs. | 9.50 |
| Glacial, bbls | 12.75 -13.00 |
| Alum, ammonia, lumptb. | 04 |
| Groundfb. | .041/604 |
| Powderedtb. | 04 |
| Chrome | .1516 |
| | .073408 |
| Potash lumpb. | .1718 |
| Chrome | |
| Groundb. | .09 — .09 |
| Alum, Potash, Powdered fb. | .073400 |
| Soda, Ground100 lbs. | 6.M |
| Aluminum chloride, carboys.tb. | 06 |
| Anhydroustb. | l: |
| Sulphtb. | 2.75 - 3.00 |
| Low gradeb. | |
| Aluminum hydrate lightfb. | .1416 |
| Heavytb. | |
| | |
| Arsenic, whiteb. | 20 - 3 |
| Red | |
| Arsenious Acidlb. | .111 |
| Ammonia, Anhydrous | 303 |
| Ammonia Carbonate | .123411 |
| Ammonia Water, 26 deg., car.fb. | 1 |
| 20 deg., carboys | 0 |
| 18 deg., carboystb. | 6 |
| 16 deg., carboystb. | |
| *Nominal | |

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|--|---|--|
| Ammonium chloride, U.S.Plb284 Sal Ammoniac, graylb12½ | Pyroligneous Acid, Techgal12 — .12½ Saltpetre, Granulatedlb. — — .13¼ Soda Ash, 58 p.c. light100 lbs. 1.90 — 2.15 | Dinitronaphthalene |
| Granulated, white | Soda Ash, 58 p.c. light. 100 fbs. 1.90 - 2.15 | Diphenylamine |
| Lumptb251/226 | Dense Sp.c. bags 100 lbs. 2.40 - 2.65 Caustic, 76 p.c 4.18 F. A. S 100 lbs 4.18 F. A. S 100 lbs. 4.10 - 4.15 Ground 25 p.c. 100 lbs. 4.00 - 4.25 | Dioxynaphthalene |
| Sulphate, foreign 100 lbs | Caustic, 76 p.c | "G" Salt |
| *Dom., double bags100 tbs 7.00 | F. o. b. Wks100 tbs. — — 4.18 | Cammic Acid |
| Antimony, Sulphuret | F. A. S100 lbs. 4.10 — 4.15 | |
| Crimson F | dround, 70 p.c | Metanitraniline |
| No. 2 | Sodium Acetate | Methylanthraguinane |
| Vermillion th 55 | Bigulahata ton 700 | Methylanthraquinone |
| Blanc Fixe, dry | Carbonate, Sal. Soda in bbls. 1.25 - 1.35 | |
| Barium, chlorideton85.00 | Bicarbonatetb. 2.35 - 2.45 | Naphtha lenediamine |
| Importedton 92.00 -93.00 | Chlorate | a-Naphthol, crude |
| Binoxide | Cyanide 96.98 | b-Naphthol, distilled |
| Nitrate | Hyposulph, bbls. gran.100 fbs. — — 3.60 Kegs 100 fbs. — — 3.85 | b-Naphthol, distilled |
| Barytes, floated, whiteton 25.00 -35.00 | | a-Naphthylamine |
| Off colorton 14.00 —18.00 | Nitrate, tech100 fbs. 2.95 — 3.15 Phosphate100 fbs. 3.25 — 3.46 | b-Naphthylamine, tech b. 1.15 - 1.3 |
| Bleaching Pd., f.o.b.wks100 lbs. 2.50 - 2.75 | | Neuille Winter's Acid |
| Export | Refined | Nitrobenzol |
| Carbide | Nitrite | Nitrochlorbenzol |
| Carbonate | Silicate, 60 degtb. 2.85 - 3.25 | o-Nitrophenol 15. 75 - 85 p-Nitrotoluol 15. 1.25 - 1.30 Nitrotoluol 15. 1.25 - 1.30 o-Nitrotoluol 15. 1.7 - 22 |
| Extra Light | 40 degtb02023/2 | p-Nitrotoluoltb. 1.25 - 1.30 |
| Light | 40 deg | Nitrotoluolb |
| Heavy | 30 D.C. CTVST318 | o-Nitrotoluoltb17 - 23 |
| Chloride, solid, f.o.b.N.Y.ton 20.00 -25.00 | Sulphite | Paranitraniline |
| Heavy | Sulphate, Gl'b. salt100 lbs. 1.40 - 1.50 Sulphur Dioxide Com | Paranitraniline |
| Chlorine, liquened | Sulphur Dioxide Comtb0811 | p-Phenylenediaminetb. 2.40 - 2.50 Phthalic Aphydridetb90 |
| Carbon bisulphide | Sulphur crudeton 25.00 —30.00 Flour Com'l., bbls100 fbs. 1.70 — 2.00 | Phthalic Anhydride |
| Carbon tetrachloride | Roll, 190 p.c | Phosgene |
| Subacetate (Verdigris) 104548 | Flowers, 100 p.c100 fbs. 3.30 — 3.85 | "P" Salt |
| Powdered | Flowers, 100 p.c100 fbs. 3.30 — 3.85 Sulphuric Acid, Tank carlots 60 deg., f.o.b. wkston — —16.00 | "P" Salt |
| Cyanide chlor Mix 73-76 27 - 28 | 60 deg., f.o.b. wkston16.00 | Sodium Naphthionate |
| Sulphate, 98-99 p.c100 fbs. 8.121/2- 8.371/2 | | Schaefer Salt |
| 99 p.c. carlots, N.Y100 lbs. 8.25 - 8.50 | Oleum, 1.0.b. Wkston 22.00 -25.00 | Tetranitromethylaniline |
| Copperas, f.o.b. works100 hs. 1.20 - 1.30 | Tannic Acld, Tech | |
| Fluorspar, Powderedton 75.00 -80.00 | Tin. bichloride | Mix Toluidine |
| Acid Grade | Crystalstb4345 Whiting100 lbs. 1.50 - 1.75 | o-Toluidine |
| Fusel Oil, crudegal. 2.50 — 2.85 Refinedgal. 3.75 — 3.80 | Zinc. carbonate | p-Toluidine |
| Hydrofluorie Ac. 03 p.c. bbls. b0809 | Zinc, carbonate | Xylene, puregal40 - 3 |
| 48 p.c. in carboys | Granulated | Xylene, Comgal4059 |
| 52 p.c. in carboys | Granulated | Xylldine |
| Lactic Acid. 22 p.c | Leaded | Xylidine |
| Lead, Acetate, white crys 1b14141/6 | | ACID COLORS: |
| Broken Cakes | Dyestuffs, Tanning Materials | Black |
| Granulated | | Bluetb. 3.00 - 5.00 |
| Arsenate, powdered | and Accessories | Brown |
| Nitrate | COAL-TAR CRUDES | Fuchsin |
| Oxide, Litharge, Amer. pd. 7b0913 | *Benzol C. Pgal27 — .32 (90 p.c.)gal26 — .31 | Fuchsin 15. 2.50 - 3.50 Orange 11 1545 50 Orange 111 151.00 - 1.25 |
| | | |
| Foreign | (90 p.c.)gal2631 | Red th 1.10 - 1.20 |
| Red, American | Cresylic acid, crude,95-97p.c.gal7580 | Red |
| Red. American | Cresylic acid, crude,95-97p.c.gal75 — .80 50 p.c | Red |
| Red, American | Cresylic acid, crude,95-97p.c.gal75 — .80 50 p.c | Red |
| Red, American | Cresylic acid, crude,95-97p.c.gal75 — .80 50 p.c | Red |
| Red, American | Cresylic acid, crude,95-97p.c.gal75 — .80 50 p.c | Red |
| Red, American 10. 1014 - 13 | Cresylic acid, crude,95-97p.c.gal. .75 80 50 p.c. .gal. 60 25 p.c. .gal. 40 Cresol, U.S.P. .th. .153417 Cresote oil. 25 p.c. .gal. .40 45 Dip. ril. 25 p.c. .gal. .40 45 Naphthalene halls th. .884 .994 | Red |
| Red. American 10. 1044 13 13 14 14 15 15 16 16 16 16 16 16 | Cresylic acid, crude,95-97p.c.gal. .75 80 50 p.c. .gal. 60 25 p.c. .gal. 40 Cresol, U.S.P. .th. .153417 Cresote oil. 25 p.c. .gal. .40 45 Dip. ril. 25 p.c. .gal. .40 45 Naphthalene halls th. .884 .994 | Red |
| Red. American 10. 1044 13 13 14 14 15 15 16 16 16 16 16 16 | Cresylic acid, crude,95-97p.c.gal. .75 80 50 p.c. .gal. 60 25 p.c. .gal. 40 Cresol, U.S.P. .th. .153417 Cresote oil. 25 p.c. .gal. .40 45 Dip. ril. 25 p.c. .gal. .40 45 Naphthalene halls th. .884 .994 | Red |
| Red. American 10. 10½ | Cresylic acid, crude,95-97p.c.gal. .75 80 50 p.c. gal. 60 25 p.c. gal. 40 Cresol, U.S.P. | Red |
| Red, American D. 1014 13 1014 13 1014 14 15 16 16 16 16 16 16 16 | Cresylic acid, crude,95-97p.c.gal. 75 - 80 50 p.c. gal. - 60 25 p.c. gal. - 40 Cresoil, U.S.P. h. 15¼-17 Cresoste oil, 25 p.c. gal. 40 - 45 Dip, cil. 25 p.c. gal. 40 - 45 Naphthalene, balls hb. 00%-09%-09%-09%-09%-09%-09%-09%-09%-09%- | Red |
| Red. American 10. 10½ 13 10½ 13 10½ 14 15 10½ 15 10½ 15 10½ 15 10½ 15 10½ 15 10½ 15 10½ | Cresylic acid, crude,95-97p.c.gal. .75 80 .50 p.c. | Red |
| Red. American 10. 10½ 13 10½ 13 10½ 14 15 10½ 15 10½ 15 10½ 15 10½ 15 10½ 15 10½ 15 10½ | Cresylic acid, crude,95-97p.c.gal. | Red |
| Red. American D. 101/4 13 13 101/4 14 15 16 16 17 17 18 18 19 19 18 18 18 18 | Cresylic acid, crude,95-97p.c.gal. | Red |
| Red. American D. 1014 13 13 1014 13 1014 13 1014 14 15 16 16 16 16 16 16 16 | Cresylic acid, crude,95-97p.c.gal. | Red |
| Red. American D. 10½ 13 13 10½ 14 15 15 16 15 16 16 16 16 | Cresylic acid, crude,95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 40 17 Cresote oil 25 p.c. gal. 40 -45 Dip. nil. 25 p.c. gal. 40 45 Naphthalene, balls h. 88½ 69½ Flake h. 97 08 Phenol h. 12 17 Export h. 19 20 Pitch, various grades ton 14.00 18.00 Solvent naphtha, waterwhitegal. 22 25 Crude heavy gal. 16 18 "Toluol, pure gal. 33 "Commercial 90 p.c. h. 33 Xylol, pure water white gal. 40 45 Commercial gal. 32 330 33 331 331 332 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 335 | Red |
| Red. American D. 1014 13 13 1014 14 15 16 16 16 16 16 16 16 | Cresylic acid, crude,95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 40 17 Cresote oil 25 p.c. gal. 40 -45 Dip. nil. 25 p.c. gal. 40 45 Naphthalene, balls h. 88½ 69½ Flake h. 97 08 Phenol h. 12 17 Export h. 19 20 Pitch, various grades ton 14.00 18.00 Solvent naphtha, waterwhitegal. 22 25 Crude heavy gal. 16 18 "Toluol, pure gal. 33 "Commercial 90 p.c. h. 33 Xylol, pure water white gal. 40 45 Commercial gal. 32 330 33 331 331 332 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 333 335 | Red |
| Red. American D. 101/4 13 13 101/4 13 101/4 14 15 16 16 17 17 17 17 17 17 | Cresylic acid, crude,95-97p.c.gal. | Red |
| Red. American D. 101/4 13 13 101/4 14 15 101/4 15 16 16 17 17 17 17 17 17 | Cresylic acid, crude,95-97p.c.gal. | Red |
| Red. American D. 101/4 13 13 101/4 13 101/4 14 15 16 16 16 16 16 16 16 | Cresylic acid, crude,95-97p.c.gal. | Red |
| Red. American D. 1014 13 13 1014 14 15 15 17 17 17 17 17 17 | Cresylic acid, crude,95-97p.c.gal. | Red |
| Red. American D. 101/4 13 13 101/4 13 101/4 14 15 16 16 17 17 18 17 17 18 18 18 | Cresylic acid, crude,95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 40 Cresol, U.S.P. | Red |
| Red, American b. 10¼ - 13 Sulphate, basic carb., Amer. dry b. 09¼ - 13 in Oil, 100 lbs. or over b 13 Lithopone b. 07 - 07¼ Lime, hydrate 100 bs. 200 - 2.05 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b. 15 - 17 Magnesite ton 62.00 - 65.00 f.o.b. N. Y b. 033¼ - 04 Muriatic acid, 18 deg. carboys. 100 bs. 1.65 - 1.75 22 deg. carboys. 100 bs. 1.65 - 1.75 Salts, single b. 14 - 16 double b. 12 - 13 Nitric acid, 3 deg. carboys b. 05 123 deg. carboys b. 05 Salts, single b. 14 - 16 double b. 12 - 13 Nitric acid, 3 deg. carboys b. 05 123 deg. carboys b. 05 123 deg. carboys b. 05 124 deg. carboys b. 05 125 deg. carboys b. 05 126 deg. carboys b. 05 127 deg. carboys b. 05 128 deg. carboys b. 05 129 deg. carboys b. 05 120 deg. carboys b. 05 121 deg. carboys b. 05 123 deg. carboys b. 05 124 deg. carboys b. 05 125 deg. carboys b. 05 126 deg. carboys b. 05 126 deg. carboys b. 05 127 deg. 0544 128 deg. carboys b. 05 129 deg. 0544 129 deg. carboys b. 05 140 deg. carboys b. 05 150 deg. 0544 1 | Cresylic acid, crude,95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 40 Cresol, U.S.P. | Red |
| Red, American b. 10¼ - 13 Sulphate, basic carb., Amer. dry b. 09¼ - 13 in Oil, 100 lbs. or over b 13 Lithopone b. 07 - 07¼ Lime, hydrate 100 b. 2.00 - 2.05 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b. 15 - 17 Magnesite ton 62.00 - 65.00 18 deg. carboys. 100 bs. 1.65 - 1.76 2 deg. carboys. 100 bs. 1.65 - 1.76 Salts, single b. 14 - 16 double b. 12 - 13 Nitric acid, 3 deg. carboys b. 05 32 deg. carboys b. 05 Salts, single b. 14 - 16 double b. 12 - 13 Nitric acid, 3 deg. carboys b. 0654 - 06½ 40 deg. carboys b. 0654 - 0654 40 deg. carboys b. 0664 - 0654 40 deg. carboys b. 0664 - 0654 40 deg. carboys b. 0664 - 0674 42 deg. carboys b. 0674 - 0774 42 deg. carboys b. 0674 - 0774 42 deg. carboys b. 0674 - 0774 Phosuboric Acid. 85-88 p.c. bb. 33 38 | Cresylic acid, crude,95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 40 45 25 p.c. 25 p.c. | Red |
| Red, American b. 1044 13 Sulphate, basic carb., Amer. dry b. 13 in Oil, 100 lbs. or over. b 13 Lithopone b. 0944 13 Lithopone b. 0774 Lime, hydrate b 0774 Lime, hydrate b 205 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b. 15 - 17 Magnesite ton 6200 -6500 1.6.b. N. Y. b. 0344 04 Muriatic acid, 18 deg. carboys. 100 fbs. 1.65 1.75 22 deg. carboys. 100 fbs. 1.65 1.75 22 deg. carboys. 100 fbs. 1.65 1.75 23 deg. carboys. 100 fbs. 1.65 1.75 24 deg. carboys. 100 fbs. 1.65 1.75 25 deg. carboys. 100 fbs. 0.654 Miric acid, 63 deg. carboys b. 05 40 deg. carboys. 100 fbs. 1.65 1.75 Salts, single b. 14 - 16 double b. 10 12 - 13 Nitric acid, 63 deg. carboys b. 0544 0644 40 deg. carboys b. 0544 0644 40 deg. carboys b. 0544 0645 41 0684 0644 0645 42 deg. carboys b. 0544 07 42 deg. carboys b. 0544 07 42 deg. carboys b. 0544 07 43 - 0744 Phosphoric Acid, 85-88 p.c. fb. 33 - 38 59 p.c. tech. b. 2144 2545 | Cresylic acid, crude,95-97p.c.gal. | Red |
| Red, American b. 38ulphate, basic c. b. b0834 White, Basic Carb., Amer. dry b. 0944 13 in Oil, 100 lba or over b13 Lithopone b. 07 -0734 Lime, hydrate 100 bs 2.00 -2.05 Sulphur solution gal. 17 - 22 Manganese Chlor b. 15 - 16 Sulp. b. 15 - 17 Magnesite ton 62.00 -65.00 f.o.b. N. Y. b. 0334 04 Muriatic acid, 100 bs 1.65 - 1.75 22 deg. carboys. 100 bs 1.65 - 1.75 22 deg. carboys. 100 bs 1.65 - 1.75 22 deg. carboys. 100 bs 1.65 - 1.75 24 deg. carboys 100 bs 1.65 - 1.75 25 deg. carboys 100 bs 1.65 - 1.75 26 double b. 14 - 16 double b. 12 - 13 Nitric acid, 63 deg. carboys b. 0544 0.694 40 deg. carboys b. 0544 0.77 42 deg. carboys b. 0544 0.77 42 deg. carboys b. 0544 0.77 45 phosphorus red b. 06 70 | Cresylic acid, crude, 95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 40 45 17 Creosote oil 25 p.c. gal. 40 45 17 Creosote oil 25 p.c. gal. 40 45 18 45 18 16 18 18 16 18 18 18 18 18 18 18 | Red |
| Red, American b. 3044 13 Sulphate, basic carb., Amer. dry b. 0944 13 in Oil, 100 lbs. or over. b 13 Lithopone b. 07 - 074 Lime, hydrate 100 b. 2.00 - 2.05 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b. 15 - 17 Magnesite ton 62.00 - 65.00 f. o.b. N. Y. b. 034 - 04 Muriatic acid, 63 deg. carboys. 100 lbs. 1.65 - 1.75 22 deg. carboys. 100 lbs. 1.65 - 1.75 22 deg. carboys. 100 lbs. 1.65 - 1.75 Salts, single b. 14 - 16 double b. 10 12 - 13 Nitric acid, 63 deg. carboys b. 05 31 deg. carboys b. 05 32 deg. carboys. 100 lbs. 1.2 - 13 Nitric acid, 63 deg. carboys b. 05 31 deg. carboys b. 05 42 deg. carboys b. 05 44 deg. carboys b. 05 45 deg. carboys b. 05 46 deg. carboys b. 05 47 48 deg. carboys b. 05 49 deg. carboys b. 05 40 deg. carboys b. 05 40 deg. carboys b. 05 41 - 074 42 deg. carboys b. 074 - 074 43 deg. carboys b. 074 - 074 44 deg. carboys b. 074 - 074 45 deg. carboys b. 074 - 074 46 deg. carboys b. 074 - 074 47 deg. carboys b. 074 - 074 48 deg. carboys b. 074 - 074 49 lbs. 11 - 11 40 lbs. 11 - 12 41 - 12 42 lbs. 11 - 13 42 lbs. 12 43 deg. carboys b. 074 - 074 44 lbs. 15 - 16 45 lbs. 15 - 17 46 deg. carboys b. 074 - 074 47 lbs. 17 48 lbs. 18 l | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 40 60 25 p.c. gal. 40 45 25 p.c. 31 20 25 p.c. 31 20 25 p.c. 31 20 25 p.c. 31 20 25 p.c. 20 p.c. 20 25 p.c. 20 p | Red |
| Red, American b. 301/4 13 Sulphate, basic carb., Amer. dry b. 0934 13 in Oil, 100 lba or over b. 0944 13 in Oil, 100 lba or over b. 0944 13 Lithopone b. 07 073/4 Lime, hydrate 10b 2.00 2.05 Sulphur solution gal. 17 2.2 Manganese Chlor b. 15 16 Sulp. b. 15 17 Magnesite ton 62.00 -65.00 f.o.b. N. Y. b. 033/4 04 Muriatic acid, 100 lbs. 1.65 1.75 20 deg. carboys. 100 lbs. 1.65 1.75 22 deg. carboys. 100 lbs. 1.65 1.75 22 deg. carboys. 100 lbs. 1.65 1.75 31 15 17 Sulp. 10 10 lbs. 1.65 1.75 32 deg. carboys. 100 lbs. 1.65 1.75 33 deg. carboys. 100 lbs. 1.65 1.75 34 deg. carboys. 100 lbs. 1.65 1.75 35 0.0544 0.06/4 0.06/4 40 deg. carboys. 10 .0544 0.07/4 1.75 40 deg. carboys. 10 .0544 0.07/4 1.75 41 lbs. 15 18 18 18 18 18 18 18 18 18 18 18 18 18 | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 1554-17 17 17 17 17 18 18 18 | Red |
| Red. American D. Sulphate, basic D. - 0.084 13 | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 1554-17 17 17 17 17 18 18 18 | Red |
| Red. American D. Sulphate, basic D. - 0.084 13 | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 1554-17 17 17 17 17 18 18 18 | Red |
| Red, American Sulphate, basic th | Cresylic acid, crude,95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 40 60 25 p.c. gal. 40 45 25 p.c. 10 25 p.c. 10 25 p.c. 25 p.c. 26 p.c. 26 p.c. 26 p.c. 27 | Red |
| Red, American Sulphate, basic th | Cresylic acid, crude,95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 60 25 p.c. gal. 40 60 25 p.c. gal. 40 45 25 p.c. 10 25 p.c. 10 25 p.c. 25 p.c. 26 p.c. 26 p.c. 26 p.c. 27 | Red |
| Red, American b. 3044 13 Sulphate, basic carb. Amer. b. 0934 13 in Oil, 100 lba or over b. 13 Lithopone b. 07 - 0734 Lime, hydrate b. 0 - 205 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b. 15 - 17 Magnesite ton 62.00 - 65.00 f.o.b. N. Y. b. 0334 04 Muriatic acid, 100 bs. 1.65 - 1.75 22 deg. carboys. 100 bs. 1.55 - 1.75 22 deg. carboys. 100 bs. 1.65 - 1.75 22 deg. carboys. 100 bs. 1.65 - 1.75 24 deg. carboys. 100 bs. 1.65 - 1.75 25 deg. carboys. 100 bs. 1.65 - 1.75 26 double b. 12 - 13 Nitric acid, 63 deg. carboys b. 0654 - 0694 40 deg. carboys. b. 0654 - 0694 40 deg. carboys. b. 0794 - 0794 Phosphorus red b. 12 - 13 Phosphorus red b. 12 - 215 Plaster of Paris. bbl. 1.59 - 1.60 Plaster of Paris. bbl. 1.75 - 2.00 Potash Caustic, 83-92 bb. 1.59 - 42 Sticks b. 1.60 - 70 Potash Caustic, 83-92 bb. 1.59 - 1.60 Potash Caustic, 83-92 bb. 1.59 - 1.60 Potash Caustic, 83-92 bb. 1.59 - 1.60 Sticks bbl. 1.75 - 2.00 Potash Caustic, 83-92 bb. 1.50 - 654 Sticks bbl. 1.75 - 2.00 Potash Caustic, 83-92 bb. 1.59 - 1.60 Sticks bbl. 1.75 - 2.00 Potash Caustic, 81-97 bb. 10 - 65 | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 1554-17 Cresoste oil 25 p.c. gal. 40 45 15 15 15 15 15 15 15 | Red |
| Red, American b. 301/4 13 Sulphate, basic b. b. — .083/4 13 in Oil, 100 lbs. or over b094 13 in Oil, 100 lbs00 2.05 Sulphur solution gal. 17 2.22 Manganese Chlor. b. 15 15 16 Sulp. b. 15 17 15 15 16 Sulp. b. 15 17 15 17 Magnesite ton 62.00 -65.00 f. o.b. N. Y. b033/4 .04 Muriatic acid, 18 deg. carboys100 lbs00 lbs00 deg. carboys100 lbs00 | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 1554-17 Cresoste oil 25 p.c. gal. 40 45 15 15 15 15 15 15 15 | Red |
| Red, American b. 3ulphate, basic c. b. b. white, Basic Carb., Amer. dry b. 0934—13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, 1 | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 1554-17 Cresoste oil 25 p.c. gal. 40 45 15 15 15 15 15 15 15 | Red |
| Red, American b. 301/4 13 Sulphate, basic b. b. — .083/4 13 in Oil, 100 lbs. or over. b094 13 in Oil, 100 lbs. or over. b07 .075 In Oil, 100 lbs. or over. b07 .075 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b15 - 17 In Magnesite ton 62.00 -65.00 f. o.b. N. Y. b033/4 04 Muriatic acid, 18 deg. carboys100 lbs20 deg20 deg | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 1554-17 Cresoste oil 25 p.c. gal. 40 45 15 15 15 15 15 15 15 | Red |
| Red, American b. 301/4 13 Sulphate, basic b. b. — .083/4 13 in Oil, 100 lbs. or over. b094 13 in Oil, 100 lbs. or over. b07 .075 In Oil, 100 lbs. or over. b07 .075 Sulphur solution gal. 17 - 22 Manganese Chlor. b. 15 - 16 Sulp. b15 - 17 In Magnesite ton 62.00 -65.00 f. o.b. N. Y. b033/4 04 Muriatic acid, 18 deg. carboys100 lbs20 deg20 deg | Cresylic acid, crude,95-97p.c.gal. 75 - 80 50 p.c. | Red |
| Red, American b. 301/4 13 Sulphate, basic carb., Amer. dry b. 0944 13 in Oil, 100 lbs. or over. b. 0944 13 Lithopone b. 07 0794 Lime, hydrate 100 20 2.05 Sulphur solution gal. 17 22 Manganese Chlor. b. 15 - 16 Sulp. b. 15 - 17 Magnesite ton 62.00 - 65.00 f.o.b. N. Y. b. 0334 04 Muriatic acid, 18 deg. carboys. 100 bs. 20 20 deg. carboys. 100 bs. 1.65 1.75 22 deg. carboys. 100 bs. 1.65 1.75 22 deg. carboys. 100 bs. 1.65 1.75 23 deg. carboys 100 bs. 1.65 1.75 24 deg. carboys 100 bs. 1.65 1.75 25 deg. carboys 100 bs. 1.65 1.75 26 deg. carboys 100 bs. 1.65 1.75 27 deg. carboys 100 bs. 1.65 1.75 28 deg. carboys 100 bs. 1.65 1.75 29 deg. carboys 100 bs. 1.65 1.75 20 deg. carboys 100 bs. 1.65 1.75 21 deg. carboys 100 bs. 1.65 1.75 21 deg. carboys 100 bs. 1.65 1.75 20 deg. carboys 100 bs. 1.65 1.75 21 deg. carboys 100 bs. 1.65 1.75 22 deg. carboys 100 bs. 1.65 1.75 23 deg. carboys 100 bs. 1.65 1.75 24 deg. carboys 100 bs. 1.65 1.75 25 deg. carboys 100 bs. 1.65 1.75 26 deg. carboys 100 bs. 100 bs. 100 1.10 26 deg. carboys 100 bs. 100 1.10 27 deg. carboys 100 bs. 100 1.10 28 deg. carboys 100 1.10 1.10 29 deg. carboys 100 1.10 1.10 20 deg. carboys 100 1.10 1.10 1.10 1.10 1.10 1.10 1.10 | Cresylic acid, crude, 95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 40 45 25 p.c. 60 25 | Red |
| Red, American b. 3044 13 Sulphate, basic carb., Amer. dry b. 0934 13 in Oil, 100 lba or over b. 5094 13 Lithopone b. 07 - 0734 Lithopone b. 0734 - 07 Magnesite ton 62.00 - 65.00 f. 0.b. N. Y. 10 15 - 17 Lithopone b. 0754 - 0754 Lithopone c. 0754 L | Cresylic acid, crude, 95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 40 45 25 p.c. 60 25 | Red |
| Red, American | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 45 10 10 10 10 10 10 10 1 | Red |
| Red, American b. 304 13 Sulphate, basic carb., Amer. dry b. 0934 13 in Oil, 100 lba or over b. 0934 13 in Oil, 100 lba or over b. 0934 13 Lithopone b. 07 0734 Lime, hydrate 10b 200 205 Sulphur solution gal. 17 22 Manganese Chlor b. 15 16 Sulp. b. 15 17 Magnesite ton 62.00 -65.00 f.o.b. N. Y. b. 0334 04 Muriatic acid, 18 deg. carboys. 100 bs. 1.65 1.75 22 deg. carboys. 100 bs. 1.65 1.75 22 deg. carboys. 100 bs. 1.65 1.75 23 deg. carboys 100 bs. 1.65 1.75 24 deg. carboys 100 bs. 1.65 1.75 25 deg. carboys 100 bs. 1.65 1.75 26 deg. carboys 100 bs. 1.65 1.75 27 deg. carboys 100 bs. 1.65 1.75 28 deg. carboys 100 bs. 1.65 1.75 29 deg. carboys 100 bs. 1.65 1.75 20 deg. carboys 100 bs. 1.65 1.75 21 deg. carboys 100 bs. 1.65 1.75 22 deg. carboys 100 bs. 1.65 1.75 25 deg. carboys 100 bs. 1.65 1.75 26 double 15 14 16 double 15 13 13 Nitric acid, 63 deg. carboys 15 .054 1.75 40 deg. carboys 15 .054 1.75 42 deg. carboys 15 .054 1.75 42 deg. carboys 15 .054 1.75 42 deg. carboys 15 .054 1.75 43 deg. carboys 15 .054 1.75 45 deg. carboys 15 .054 1.75 46 deg. carboys 15 .054 1.75 47 hosphoric Acid, 85-88 p.c. 15 .33 1.88 48 59 p.c. 15 .20 Potash Caustic, 88-92 15 .28 51cks 100 -1.00 Potassium Bichromate 15 .32 .35 Carbonate, calc. U.S.P. 15 .60 .65 80-85 p.c. 15 .24 80-85 p.c. 15 .24 80-85 p.c. 15 .24 80-85 p.c. 15 .25 80-85 p.c. 15 .28 80-85 p.c. | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 45 10 10 10 10 10 10 10 1 | Red |
| Red, American b. 304 13 Sulphate, basic carb., Amer. dry b. 0934 13 in Oil, 100 lba or over b. 0934 13 in Oil, 100 lba or over b. 0934 13 Lithopone b. 07 0734 Lime, hydrate 10b 200 205 Sulphur solution gal. 17 22 Manganese Chlor b. 15 16 Sulp. b. 15 17 Magnesite ton 62.00 -65.00 f.o.b. N. Y. b. 0334 04 Muriatic acid, 18 deg. carboys. 100 bs. 1.65 1.75 22 deg. carboys. 100 bs. 1.65 1.75 22 deg. carboys. 100 bs. 1.65 1.75 23 deg. carboys 100 bs. 1.65 1.75 24 deg. carboys 100 bs. 1.65 1.75 25 deg. carboys 100 bs. 1.65 1.75 26 deg. carboys 100 bs. 1.65 1.75 27 deg. carboys 100 bs. 1.65 1.75 28 deg. carboys 100 bs. 1.65 1.75 29 deg. carboys 100 bs. 1.65 1.75 20 deg. carboys 100 bs. 1.65 1.75 21 deg. carboys 100 bs. 1.65 1.75 22 deg. carboys 100 bs. 1.65 1.75 25 deg. carboys 100 bs. 1.65 1.75 26 double 15 14 16 double 15 13 13 Nitric acid, 63 deg. carboys 15 .054 1.75 40 deg. carboys 15 .054 1.75 42 deg. carboys 15 .054 1.75 42 deg. carboys 15 .054 1.75 42 deg. carboys 15 .054 1.75 43 deg. carboys 15 .054 1.75 45 deg. carboys 15 .054 1.75 46 deg. carboys 15 .054 1.75 47 hosphoric Acid, 85-88 p.c. 15 .33 1.88 48 59 p.c. 15 .20 Potash Caustic, 88-92 15 .28 51cks 100 -1.00 Potassium Bichromate 15 .32 .35 Carbonate, calc. U.S.P. 15 .60 .65 80-85 p.c. 15 .24 80-85 p.c. 15 .24 80-85 p.c. 15 .24 80-85 p.c. 15 .25 80-85 p.c. 15 .28 80-85 p.c. | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 45 10 10 10 10 10 10 10 1 | Red |
| Red, American b. Sulphate, basic c. b. b. White, Basic Carb., Amer. dry b. 0944—13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 45 10 10 10 10 10 10 10 1 | Red |
| Red, American b. Sulphate, basic c. b. b. White, Basic Carb., Amer. dry b. 0944—13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 13 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, 100 lbs. or over. b. c. 15 in Oil, | Cresylic acid, crude, 95-97p.c.gal. 75 80 50 p.c. gal. 60 25 p.c. gal. 40 45 25 p.c. 31 30 25 p.c. 32 p.c | Red |
| Red, American | Cresylic acid, crude,95-97p.c.gal. 75 -80 50 p.c. gal. 60 25 p.c. gal. 40 45 10 10 10 10 10 10 10 1 | Red |

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Red Lead
White Lead
Litharge
Lithophone
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Magnesite
Magnesia Oxide
Outs Magnesia Oxide
Olis
Olis
Red Oxide
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Zinc Substitute
Lime

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D

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| OIL COLORS: | .70 | _ 1/ | 20 |
|--|----------------------|----------------------|-----------------|
| Blue | 1.65 | - 1.0 - 2.0 | 10 |
| Orange | 1.40 | - 1.5 | 00 |
| Red IV | 1.80 1.75 1.70 | - 3.5 - 2.0 | 10 |
| Yellow | 1.75 | - 20 | 100 |
| Red III th. Red IV th. Scarlet th. Yellow th. Nigrosine, spis. sol. th. Nigrosine, water sol., blueth. | - | 8 | 55 |
| *** | .90 | - 1.0 | |
| Black | .30 | _ , | 10 |
| Blue Dom,tb. | .80 | 5 | 00 15 |
| Green | 1.00 | - 2.0 | 00 |
| Yellow | 90 | - 1.0 | 00 |
| Alizaria Blue bright th | 7.75 | - 9.2 | 25 |
| Alizarin, medium | 7.75 6.25 | - 7.5 - 2.5 | |
| Alizarin Orange | . = | - 1.9 | 90 |
| Alizarin Red, W. S. Paste fb. | 5.00 | -10.0 - 1.0 | |
| Alizarin Orange | . = | - 1. | 50 |
| Chrome Black, Dom | 1.25 | - 1.3 | 50 |
| Chrome Blue | 2.20 2.50 1.50 | - 2. - 2. - 1. | 75 |
| Chrome Red | 1.50 | - 20 | 00 |
| BASIC COLORS: | | | |
| Auramine, Single O. Dom.fb. | - | - 2.: - 3.: | 25 |
| Bismarck Brown Y | .90 | - 1. | 00 |
| BASIC COLORS: Auramine, Single O. Dom.fb. Auramine, Double O. Imp.fb. Bismarck Brown Y | 1.20 | - 1.0 | 30 |
| Chrysoidine Yb. | - | - 5. - 8. | 20 |
| Emerald Green, Crystalsfb. | 5.00 | - 8. | 00 |
| Green Crystals, Brilliant | 6.00 | - 7. | 00 75 |
| Fuchsine Crystals, Dom fb. | 4.00 | - 51 | m |
| Magenta Acid. Dom | 12.00 | -12. - 5. | 50 |
| Magenta Crystals, Impfb. | 10.00 | -12 | 00 |
| Malachite Green, Crystals. Ib. | = | - 4. - 3. | |
| Methylene Blue, tech | 2.25 | - 3. - 2. | 50 |
| Methyl violet | 7.00 | 10. | 000 |
| Rhodamine B, ex. con't | 5.00 | -27.0 - 6.0 | 90 00 |
| Victoria Blue Btb. | 5.00 | - 5. | 50 |
| Victoria Blue, base, Dom. Ib. | 6.00 | - 6. - 7. | 00 |
| Victoria Redb. | 7.00 | - 8. - 8. | 00 |
| NATURAL DYEST | UFF | | 00 |
| | | | 33 |
| Carmine No. 40 | .05 5.25 | - 5 | 07 50 |
| Cochineal | .65 | | 50 80 |
| Indigo, Bengalfb. | 2.75 | - 3. | 00 |
| Oudestb | 2.25 | - 2 | 75 |
| Kurpahs fb. | 2.00 2.00 .90 | - 2 - 2 | 25 |
| Madder Dutch | 25 | - 1. | 10 |
| Nutgalls, blue Aleppofb. | | - : | 28 75 |
| Annatto, fine b. Seed b. Carmine No. 40 b. Cochineal b. Gambier, see tanning. Indigo, Bengal b. Guatemala b. Kurpahs b. Madder, Dutch b. Nugalls, blue Aleppo b. Chinese b. Chinese b. Persian Berries b. Quercitron Bark, see tanning. Turmeric, Maddras b. | 34 | = . | 36 |
| Quercitron Bark, see tanning. Turmeric, Madras | | ., | 14 |
| Aleppey | | - : | 10 |
| DYEWOODS | | | |
| Barwood | 06 | | 20 |
| | | -35. | 00 |
| Chips | 05 | - | .06 |
| Hypernic, chipsb. *Logwood Sticks | 40.00 | -45 | .00 |
| Chips | 03 | 16- | .051/ |
| Quercitron, see tanning. Red Saunders | .20 | | 22 |
| EXTRACTS | | | |
| Archil. Doubleth | 17 | - | 20 |
| Concentrated | 20 | = ; | 25 |
| Cutch, Mangrove, seen tanning Rangoon, boxes | | | |
| Rangoon, boxes | 16 | = | 18 |
| Liquidb. Tabletb | 14 | - | .15 |
| | | _ | - |
| Cudbear, French | . 21 | _ | 26 |

| , |
|---|
| Flavine |
| Fustic, Solid |
| Crystals 100 p.c |
| Extract 42 deg |
| Liquid, 51 deg |
| Hematine Extract 51 degtb1415 |
| Crystals, 100 p. ctb3032 |
| Hypernic, liquid, 51 degtb24 Indigo, naturaltb. 2.00 - 2.50 |
| Extract |
| Indigotine, 100 p.c. pure 1b. 3.00 - 3.50 |
| Logwood, solidtb25 |
| Crystals, 100 p.ctb28 51 deg., Twaddletb1217 |
| Usage Orange, Extract 42 degib09 - 10 |
| Osage Orange, Extract 42 deglb0910 Crystals, 100 p.e |
| Faste |
| O-ttt- |
| Quercitron, 51 deg |
| Powdered, 100 p.c |
| MISCELLANEOUS DYESTUFFS |
| |
| Albumen, Egg |
| Domestic |
| Prussian bluetb7080 |
| Soluble |
| Turkey Red Oil |
| 100-1b. timetb12 |
| 520-lb. caskstb11 |
| Carload lots |
| DEXTRINES AND STARCHES |
| British Gumper 100 fbs. 8.00 - 8.50 |
| Dextrine, Corn, white or |
| yellowper 100 fbs. 6.75 — 7.00 Potato, white or canaryfb17 — .18 |
| Starch, Powd., bags & bbls 5.35 |
| Starch, Powd., bags & bbls 5.35 Pearl, Globe, bags & bbls 5.20 |
| Potato, Domestic |
| Imported, duty paidfb08081/2 |
| RAW TANNING MATERIALS |
| Algarobillaton185.00, -200.00 Divi Diviton 74.00 -76.00 |
| Hemlock Barkton 15.00 -16.00 |
| Mangrove, African, 38 p.c. ton110.00 -125.00 |
| Bark, S. Aton 60.00 65.00 |
| Myrobalans |
| Groundton17.50 |
| Quercitron Bark roughton 13.00 -15.00 |
| Groundton 27.00 -25 90 |
| Sumac, Sicily, 27 p.c. tan, ton 120.00 |
| Virginia, 25 p.c. tanton 120.00 Valonia Cupston |
| Deard |
| Wattle Barkton90.00 TANNING EXTRACTS |
| Chestnut, ordinary, 25 p.c. tan, |
| bbls |
| Crystals, ordinary |
| Clarified |
| Gambier, 25 p. e. tan |
| Cubes, Singpaore |
| Cubes, Java |
| Larch, 25 p.c. tan |
| Crystals, 50 p.c. tantb08½ - 06½ Mangrove, 55 p.c. tantb0910 |
| Liquid, 25 p.c. tan |
| Muskego. 23-30 p.c. tan, 50 p.c. total solids |
| Myrobalaus, iiq., B-B p.c.tan fb. Nominai |
| *Solid, 50 p.c. tan |
| |

| Oak Bark, liquid, 23-25p.c.tanfo, | 054 |
|--|-------------|
| Quebracho, liquid, 35 p.ctb. | 0% |
| *35 p.c. tan, untreated | 064 |
| *35 p.c. tan bleachingtb. | 1,00% |
| 33 p.c. tan bleachingib. | 08 |
| *Solid, 65 p.c. tan, ordinary.tb. *Clarified | 12 |
| *Clarified | |
| Spruce, liquid, 20 p.c. tan, 50 p.c. total solids | 011/ |
| 50 p.c. total solids | .011/6011/4 |
| Sumac, liquid, 25 p.e. tantb. | .061/00 |
| Valoni , solid, 65 p.c. tanfb. | Nominal |

Oils

| ANIMAL AND FI | |
|---|--|
| Cod Newfoundlandgal. Domestic, primegal. Norwegianbbl. Liver, Newfoundlandbbl. | 1.12 — 1.14 1.10 — 1.12 — — — — — — — — — — — — — — — — — — — |
| Degras, Americanlb. Englishb. Neutralb. | .071/308/4 |
| Degras, American Ib. | .1112 1.85 1.75 1.32 - 1.28 |
| Extra, No. 1gal. No. 2gal. Menhaden, Light strained gal. | 1.40 1.27 - 1.28 1.20 - 1.23 |
| Menhaden, Light strained gal. Yellow, bleachedgal. White, bleached, winter.lb. Northern, crudegal. Southern, crude,f.o.b.plant.gal. | 1.22 - 125 1.24 - 127 |
| Northern, cride, f.o.b.plant.gal. Southern, cride, f.o.b.plant.gal. Neatsfoot, 20 deggal. 30 deg., cold testgal. 40 deg., cold testgal. Darkgal. | 95 2.25 2.05 1.90 |
| Oleo Oil | 1.60 - 1.65 1.75 - 1.80 .2532 |
| Red (Crude Oleic Acid) | 16 16 1.95 - 2.00 |
| 45 deg., cold testgal. Natural winter, 38 deg., cold est gal. Stearic, single pressedb. | 1.95 — 2.00 — — 20 |
| Triple pressed | 26 30 1.50 - 1.55 |
| Whale, natural wintergal. Bleached, wintergal. | 1.45 — 1.50 1.30 — 1.35 1.35 — 1.40 |
| | 21 |
| Castor, No. 1 bbls bb. Cases bb. No. 3 bb. China Wood Oil, bbls bb. Coconut, Dom. Ceylon, bbls.tb. Cochin, bbs. bbls., Dom. bb. Tanks bb. Tanks bb. | .18/218 .17/218 .16/216/4 .19/219/4 |
| Cochin, bb.s bbls., Domtb. *Tanks | .19½— .19¼ .18¾— 19 .16½— .17 — — .23½ |
| Crude, Tanks | 20 .19½20 .20½21 |
| *White the *Winter, yellow the Linseed, raw car lotsgal. | .231425 |
| 5 barrel lotsgal. Boiled, 5-bbl. lotsgal. Dcuble Boiled, 5-bbl. lots | 1.90 1.93 1.94 |
| *Olive, denatured gal. Edible bb. Foots bb. Palm, Lagos casks bb. | 2.50 - 2.55 3.10 - 3.20 .19 ¹ / ₄ 19 ¹ / ₄ .17 ¹ / ₄ 17 ¹ / ₆ |
| Nigertb. | .153/416 |
| Peanut Oil, refinedtb. *Crude, f.o.b. mills | .2627 .2324 .22½23 |
| Palm Kernel, domestic | 2.75 - 3.00 $1.60 - 1.65$ $1.65 - 1.70$ |
| *Sesame, domestic, ediblegal. *Impurted | .16¼16¼ .17½17¼ |
| Sova Bean, Tanks, Pac.Coastib. New York, bblsb. GREASES. LARDS. TA (New York Markets | LLOW8 |
| Grease, white | .17½— .17½ .12½— .13½ .12½— .13 |
| *Nominal | |

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| Grease, Brown th. Lard City th. Lompound th. Stearine, lard th. Oleo th. Tallow, edible th. City, prime th. (Chicago Markets) | .08 | | .173/2 | OIL CAKE AND MEAL Cottonseed Cake, f.o.b. Texas. — -54.50 f.o.b. New Orleans | *D. C |
|---|--------|-------|-----------------------------|---|---|
| Tallow, edible | - | | .161/2 | Linseed Mealshort ton80.00 *Nominal | Bone, dry |
| Grease, Choice Whitetb. "A" Whitetb. | .151/2 | _ | | Miscellaneous | *Spirits Turpentine in bbls.gal. 1.65 - 1.7 Wood Turpentine, steam distilled, bblsgal 1.5 |
| "B" White tb. Yellow tb. Brown tb. Bone tb. House tb. Stearine, prime oleo tb. Lard, city steam tb. | .111/2 | -111- | .13½ .12½ .10½ .13 | Accura tb. 18 — 19 Bahia tb. .20 — 22 Caracas tb. .25 — .28 Hayti tb. — -18 | "Turpentine, Destructive distilled, bbls |

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ACIDS—Cresylic, 32 drums, Dana & Co., Inc., Leith; Oxalic, 80 csks., 40 csks., W. R. Greeff & Co., Rotterdam; Red, 1 bx., Brown Bros. & Co., Hull; Tartaric, 50 bbls., L'Ap-pula, Soc., Genoa; 20 bbls., Brown Bros. & Co., Trieste

pula, Soc., Genoa; 20 bbls., Brown Bros. & Co., Trieste
ALMONDS—Bitter, 83 bgs., Irving National
Bank, Marseilles; 50 bgs., 400 bgs., Brown
Bros. & Co., Marseilles; 550 bgs., British
Bank of South America, Ltd., Trieste; 100
bls., Guaranty Trust Co., Trieste; 150 bgs.,
Lloyd's Bank, Trieste; 300 bls., Fruhling &
Goschen, Trieste; 1,055 bgs., Brown Bros.
& Co., Trieste; 4 bgs., Garri & Trusso,
Messina; Sweet, 25 cs., The Cresca Co.,
Malaga; 11 cs., Brown Bros. & Co., Piraeus;
2,443 cs., 50 cs., Brown Bros. & Co., Catania
ALBUMEN—34 cs., E. Jolles & Co., Shanghai: 179 cs., 56 cs., National Importing
Trading Co., Hankow; 112 cs., 573 cs.,
Stein, Hall & Co., Hankow; 112 cs., 373
cs., French, Kreme & Co., Hankow; Flake,
25 cs., O. J. Weeks & Co., Inc., Singapore
AMID—57 csks., Rhodia Chemical Co., Marseilles

AMMONIUM MURIATE-15 csks., Wing &

Evans, Liverpool and The States, Wing a Evans, Liverpool and Timony—Crude, 280 cs., Wah, Chung Trading Co., Shanghai; Oxide, White, 480 bgs., Wah Chung Trading Co., Shanghai; Regulus, 1,000 cs., Wah Chung Trading Co., Shanghai

ARGOLS-222 bgs., Chas. Pfizer & Co.,

ARNICA-8 bls., Brown Bros. & Co., Mar-

ARNICA—8 bls., Brown Bros. & Co., Marseilles

BALSAM—Tolu, 30 cs., Commercial Bank of Spanish America, Puerto Colombia; 50 cs., George Amsinck & Co., Puerto Colombia; 20 cs., I. Brandon & Bros. Puerto Colombia; 20 cs., Deck & Velsor, Rotterdam; Wattle, 3,019 bls.. \$981 bgs., Brown Bros. & Co., Durban

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& Co., Singapore; 615 bgs., V & Co., Singapore AMPHOR—50 cs., F. W. Fr Tlentsin; 50 cs., Equitable

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Buenos Aires; 292 cs., East River National
Bank, Buenos Aires; 1,500 bgs., 2,500 bgs.,
1,667 bgs., Brown Bros. & Co., Buenos Aires;
2,502 bgs., 824 bgs., Guaranty Trust Co.,
Buenos Aires; 836 bgs., Canadian Consumers Caseine Co., Buenos Aires
OPRA—20 bgs., Franklin Baker Co., Port
Antonio

CUTCH-200 bxs., Brown Bros. & Co., Liver-

pool CUTLEFISH BONE—30 cs., Smith, Kline & French. Marseilles; 45 cs., G. W. Sheldon & Co., Marseilles; 23 bls., McKesson & Robbins, Marseilles; 8 bls., E. L. Liby & Co., Marseilles; 80 bls., Van Loan Co., Marseilles; 30 bls., American Express Co., Marseilles; 38 bls., 14 bgs., 92 cs., 228 pkgs., 10 bls., Brown Bros. & Co., Marseilles; 40 bls., Baring Bros. & Co., Maraeilles; 40 bls., Baring Bros. & Co., Maraeilles;

DIVI-DIVI-1,481 bgs., Surarte & Whitney, Curacao DRAGON'S BLOOD-10 cs., Winter, Ross &

DRUGS-Miscellaneous, 1 cs., J. L. Hopkins & Co., Havre; 1 cs., E. Lilly, Havre; 2

cs., R. F. Downing & Co., Havre; 1 cs., Parke, Davis & Co., Havre; 4 cs., Equit able Trust Co., Havre: 75 bgs., Dodge & Olcott Co., Singapore; 75 bgs., A A. Still-well & Co., Singapore; 70 bgs., Bank of Montreal, Singapore DYE—4 bgs., Thomas Meadows & Co., Liver-pool

DYE—4 bgs., Thomas Meadows & Co., Liverpool
DYESTUFFS—Annatto, 262 bgs., A. S. Lascelles & Co., Kingston: Gambier, 395 bgs.,
E. Boustead & Co., Singapore; 1,300 cs.,
Schmoll, Fils & Co., Singapore; 1,300 cs.,
Schmoll, Fils & Co., Singapore; 1,300 cs.,
Schmoll, Fils & Co., Singapore; 0,200 cs.,
Liquor, 10 csks., Brown Bros. & Co., Hull
EXTRACTS—Logwood, 189 tls., Hayti Manufacturing Corporation, Cape Haytian; Nutgall, 1 bg., L. Serra, Genoa; Quebrache,
2,151 bgs., Brown Bros. & Co., Buenos
Aires; 2,859 bgs., Bank of Montreal, Buenos
Aires; 300 bgs., National City Bank,
Buenos Aires
FLOWERS—Lily of the Valley, 80 cs., McHutchison & Co., Rotterdam; 52 cs., A. M.
Schoob, Rotterdam; Marjoram, 5 bls., A.
Stallman & Co., Marseilles; Safron, 1 cs.,
Brown Bros. & Co., Genoa
GELATIN, POWDERED—15 cs., P. H.
Magners. Puerto Colombia
GLYCERIN—20 csks., 20 bbls., Brown Bros.
& Co., Marseilles
GUM—Aloes, & cs., Suzarte & Whitney,
Curacao; 365 cs., R. Desvernine, Curacao;
Chicle, 22 bgs., Colonial Bank, Demerar;
33 bls., Roomer & Co., Progresso; 64 bls.,
O. Rihoni, Progresso; Gamboge, 12 cs., 615
scks., Winter,
Ross & Co., Suntampton
HAZEL NUT KERRELS—299 bgs., George
Grasspoulo. Constantinople; 207 bgs., Brown
Bros. & Co., Salonika
HERBS—Medicinal, Miscellaneous, 26 bbls.,
Brown Bros. & Co., Trieste
IRON OXIDE—12 csks., Red Hand Composition Co., Malaga; 351 bbls., Federal Composition Co., Malaga; 351 bbls., Federal Composition Co., Malaga; 355 bbls., C. J. Osborn
Co., Malaga; 100 bbls., Downs & Co.,
Kingston; 107 bgs., Royal Bank of Canada,

Co., Malaga; 100 bbls., Downs & Co., Malaga **KOLA NUTS**—5 bgs., A. S. Lascelles & Co., Kingston; 107 bgs., Royal Bank of Canada, Kingston; 56 bgs., Brown Bros. & Co.,

Kingston.

LEAVES—Coca. 95 bls., Baywood Chemical
Works, Central American Ports; Jaborandi,
3 bls., Brown Bros. & Co., Liverpool;
Medicinal. Miscellaneous, 6 bls., Peek &
Velsor, Marseilles; 10 bls., J. Schoregan,
Marseilles; 29 bls., Peek & Velsor Marseilles; 94 bls., Schieffelin & Co., Marseilles; 49 bls., 90 bls., 10 bbls., Brown
Bros. & Co., Marseilles; 13 bls., Brown
Bros. & Co., Warlee; 363 bls., Harper,
Marshall & Co., Singapore; Patchouli, 8
bls., Winter, Ross & Co., Singapore; Sage,
2 scks., B. Lopez Valeiros, Bilbao; 170 bgs.,
Brown Bros. & Co., Marseilles

DRUGS CHEMICALS COLORS DYE STUFFS



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After November 25th our office will be removed to

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Where we will occupy the entire

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To Manufacturers of Artificial, Split and Patent Leathers

The unprecedented demand for leather and artificial leather during the past year has made speed production imperative. At the same time it has been equally necessary for you to maintain the high standard of your products.

The manufacture of high grade artificial, split and patent leathers plus speed production means the utmost care in the selection of your raw materials. They must be "long-flowing" and uniform.

The purity and uniformity of Hercules Soluble Cotton, Soluble Cotton Solutions and Solvents, is assured by the careful technical control under which they are manufactured.

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Our technical staff stands ready to prepare special formulas for your individual requirements.

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Leather Cleth Solutions
Split Leather Dopes
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Waterproof Belt Cements

Waterproof Cements Lacquer Bases Aeroplane Dopes Thinners Heavy Base Solutions Amylate Solutions

Chemicals

Ethyl Propionate (Propionic Ether)
Ethyl Butyrate (Butyric Ether)
Dinitrotoluol (D. N. T.)
Valerates

Zinc Valerate
Ammonium Valerate U.S.P,
Quinine Valerate N. F.
Iron Valerate U.S.P.

Glacial Acetic Acid Nitrate of Ammonia Nitrobenzene (Oil of Myrbane) Ether—Technical

HERCULES POWDER CO.

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LIME CARBONATE—140 csks., National Aniline & Chemical Co., Avonmouth; Citrate, 129 csks., Goldman, Sachs & Co., National

Messina LIME JUICE-21 cs., J. E. Kerr & Co.,

Citrate, 129 28ks., Goldman, Sachs & Co., Messina
LIME JUICE—21 cs., J. E. Kerr & Co., Kingston
MEDICINES—Miscellaneous 1 cs., Mallinokredt Chemical Works, Buenos Aires; 38
bbls., Brown Bros. & Co., Marseilles; 3
cs., F. B. Vandegrift & Co., Genoa; 29
cs., J. Personeni, Genoa
MERCURY—1 cs., T. Cook & Son, Rotterdam; 1 cs., L. Vitelli, Naples
OILS—Creosote, 100 csks., Bemuth, Lemcke
Co., Inc., Leith; Haarlem, 50 cs., National
Bank of South America, Rotterdam; 10 cs.,
Amerlcan Express Co., Rotterdam; 10 live,
2 cs., Strohmeyer & Arpe Co., Bilbao; 5
cs., E. Martin, Marseilles; 20 cs., Panama
Railroad Line, Marseilles; 20 cs., Panama
Railroad Line, Marseilles; 23 cs., Rockhill
& Vietor, Marseilles; 100 cs., A. Escoffer Fig.
He, Genoa; 130 cs., Brown Bros. & Co.,
Genoa; 3,000 bxs., F. N. Glavi, Malaga;
10 bbls., Brown Bros. & Co., Piracus;
Sulphur, Green, 300 bbls., Brown Bros. & Co.,
Genoa; 3,000 bxs., F. N. Glavi, Malaga;
10 bbls., Brown Bros. & Co., Piracus;
Sulphur, Green, 300 bbls., Brown Bros. & Co.,
Marseilles; 1 drum, Bank Barcelona, Malaga; 2 drums, Brown Bros. & Co.,
Malaga; 2 drums, Brown Bros. & Co.,
Malaga; 2 drums, Brown Bros. & Co.,
Malaga; Rotterdam; Juniper Berry, 1 cs.,
C. L. Hulsking, Rotterdam; Citronella, 17
bbls., G. De Vries & Sons, Tandjong Priok;
73 drums, Brown Bros. & Co., Tandjong
Priok; Coriander, 1 cs., Magnus, Mabee &
Reynard, Rotterdam; Lemon, 100 ¼ cs.,
Baring Bros. & Co., Lid., Messina;
200 ½
cs., East Kiver National Bank, Messina;
4 cs., Magnus, Mabee & Reynard, Rotterdam; Oralge, Bitter, 10 cs., Gillesple Bros. &
Co., Kingston; 7 cs., 15 cs., A. S. Lascelles & Co., Kingston; 10 cs., J. E. Kerr
& Co., Kingston; 7 cs., 15 cs., A. S. Lascelles & Co., Kingston; 10 cs., J. E. Kerr
& Co., Kingston;

Smyrna; 3 cs., Pantaleon Bros., Smyrna; 6 cs., York Mercantile Co., Smyrna; 25 cs., McKesson & Robbins, Piraeus; 22 cs., National City Bank, Piraeus.

ORANGE PEEL-3 cs., J. Schonigang, Marcaillee

ORANGE PEEL—3 cs., J. Schonigang, Marseilles
PERFUMERY—4 cs., C. J. Tuler, J. Manheimer, Marseilles; 4 cs., B. Altman & Co., Marseilles; 14 cs., American Express
Co., Marseilles; 50 cs., Brown Bros. & Co., Marseilles; 2 cs., C. L. Huisking, Rotterdam; 3 cs., Marks & Co., Havre; 12 cs., E. Fougera & Co., Havre; 19 cs., Roger & Gallet, Havre; 4 cs., George Borgfeldt & Co., Havre; 3 cs., F. B. Vandegrift & Co., Havre; 2 cs., Park & Tilford, Havre; 1 cs., R. H. Macy & Co., Havre; 96 cs., A. H. Smith & Co., Havre; 35 cs., Holtrans Co., Inc., Cartagena

Co., Inc., Cartagena

POTASSIUM SALTS—Bromide, 15 csks., C.
L. Huisking, Inc., Rotterdam; Cyanide, 27
cs., L. Huisking, Inc., Rotterdam; Muriate,
Ouantlty, German Kall Works, Rotterdam;
I lot, German Kall Works, Rotterdam;
Prusslate, 14 csks., C. L. Huisking, Inc., Rotterdam; Red, 20 csks., C. L. Huisking, Inc.,
Rotterdam

QUININE SULPHATE-22 cs., Thos. Meadows & Co., Southampton

QUININE SULPHATE—22 cs., Thos. Meadows & Co., Southampton

ROOTS—Ipecac, 2 bgs., Ultramares Corporation, Puerto Colombia; Licorice, 100 bgs., Brown Bros. & Co., Catania; Medicinal, Miscellaneous, 62 bgs., Anderson & Co., Marseilles; 63 bgs., H. Benhart & Co., Marseilles; 71 bls., Brown Bros. & Co., Marseilles; 72 bls., Brown Bros. & Co., Marseilles; 26 bbls., Brown Bros. & Co., Venice; Rhubarb, 21 cs., O. J. Weeks & Co., Hankow; Sarsaparilla, 17 bgs., Hanover National Bank, Tampico; 50 bls., D. L. Bretzfelder & Co., Tampico; 60 bbls., Brown Bros. & Co., Central American Ports SANDALWOOD—44 bskts, Green & Co., Macassar; 385 pleces, Green & Co., Macassar; 385 pleces, Green & Co., Macassar; 386 pleces, Green & Co., Macassar; 386 pleces, Green & Co., Macassar; 387 pleces, Green & Co., Macassar; 387 pleces, Green & Co., Macassar; 380 pleces, Green & Co., Macassar; 380 pleces, Green & Co., Macassar, 180 bgs., W. Reed & Williams, Puerto Colombia; 201 bgs., Scholtz & Co., Porto Cabello; Celety, 50 bgs., 5 bgs., Brown Bros. & Co., Marseilles; Comin, 190 bls., 180 bgs., Brown Bros. & Co., Marseilles; Linseed, 12,444 bgs., Smith & Schipper, Buenos Aires; 16,727 bgs., Brown Bros. & Co., Buenos Aires; 16,727 bgs., Brown Bros. & Co., Buenos Aires; Medicinal, Miscellaneous, 38 bgs., P. H. Petty & Co., Marseilles; 50 bbls., American Express Co., Marseilles; 35 bls., 37 bgs., Brown Bros.

& Co., Marseilles; Mustard, 100 bgs., Levy, Lena & Co., Rotterdam; 150 bls. Irving National Bank, Trieste; 100 bgs., W. Schall & Co., Catania; 250 bgs., Exchange Metional Bank, Southampton; Mustard, Yellow, 169 bgs., Catz American Co., Rotterdam; Poppy, Blue, 56 bgs., 1000 bgs., 400 bgs., Catz American Co., Rotterdam; 76 cs., Levy, P. Cruikshank, Rotterdam; 75 cs., Levy, Lena & Co., Rotterdam; 75 cs., Levy, SODA, CAUSTIC—I drum, South & Central American Commercial Co., Maracaibo SODIUM CYANIDE—41 cs., C. L. Huisking, Inc., Rotterdam

SODIUM CYANIDE—41 cs., C. L. Huisking, Inc., Rotterdam
SPICES—Cloves, 2,000 bls., Childs & Joseph, Durban; 12 bls., Childs & Joseph, Durban; 750 bls., Brown Bros. & Co., Durban; Ginger, 50 csks., Ruykhaver Bros., Tientsin; 10 csks., E. Beneche & Bro., Tientsin; 10 csks., R. U. Delapenha & Co., Tlentsin; 10 csks., E. Naumberg & Co., Tlentsin; 10 csks., E. Naumberg & Co., Tlentsin; Pepper, Black, 1,016 bgs., Durel & Dodge, Tandjong Priok; 228 bgs., National City Bank, Tandjong Priok; 228 bgs., National City Bank, Tandjong Priok; 1,200 bls., I. Harrison & Crosfield, Inc., Tandjong Priok; 924 bgs., E. Bolssevain & Co., Tandjong Priok; 1478 bgs., Old & Wallace, Tandjong Priok; 1478 bgs., Citzens National Bank, Tandjong Priok; 244 bgs., Citzens National Bank, Tandjong Priok; 245 bgs., Citzens National Bank, Tandjong Priok; 255 bgs., Van Priok; 150 bgs., A. Kraemer & Co., Singapore; Pimento, 150 bgs., Royal Bank of Canada, Kingston
SPONGES—9 cs., Lasker & Bernstein, Rotterdam

SPONGES-9 cs., Lasker & Bernstein, Rot-

SULPHANAS-8,876 bxs., Brown Bros. & Co.,

TARTAR—32 bgs., Wood & Selick, Inc., Mar-seilles; 75 bgs., Tartar Chemical Works, Marseilles; 195 bls., Chas. Pfizer & Co., Marseilles; 86 bgs., Southern Sales Co., Marseilles

TITANIUM-10 cs., Pfaltz & Bauer, Rotter-

dam

WATER—Mineral, 5 cs., American Express
Co., Marseilles; 1 cs., G. W. Sheldon &
Co., Rotterdam; 1,480 cs., Apollinaris
Agency, Rotterdam; 100 cs., V. P. Bergond,
Genoa; 50 cs., J. Munroe & Co., Rotterdam;
470 cs., Apollinaris Agency, Rotterdam

WAX—Bees, 10 cs., 5 bgs., A. Phillippi Co.,
San Juan; 36 bgs., Winter Ross & Co.,
Macassar

FULLER REPORTS FOR EXPORTERS

(Special to DRUG AND CHEMICAL MARKETS)

Washington, D. C., Dec. 15 .- Plans are under way for the expansion of the commercial intelligence section of the Bureau of Foreign and Domestic Commerce, according to the annual report just submitted by the Director to the Acting Secretary of Commerce. The work of this character hitherto done by the Bureau has consisted in furnishing trade lists for various lines of business, without any information as to the relative importance of the firms shown or the character of the business conducted by them-that is, whether wholesale, retail, general importing, commission transactions, or business of other types. Many of these lists have become entirely obsolete since the beginning of the war; others are composed of very few names.

In quoting prices to a new foreign firm, it is pointed out, it is often essential that the American manufacturer be informed concerning the character of the business of the foreign firm, in order to avoid the possibility of quoting wholesale prices to a retailer. In connection with contemplated agency arrangements, it is highly desirable for the American firm to possess at least a general idea of the relative standing in the community of the prospective agent under consideration, so that a profitable market may not be tied up for a series of years in the hands of an inexperienced (or possibly an unreliable) representative.

GOVERNMENT TO SELL CHEMICALS

The War Department has requested informal proposals from chemical manufacturers, dealers and distributors to market its surplus stocks of manufacturing chemicals, acids and allied products on a commission

Proposals to dispose of these surplus stocks will be received up to and including Dec. 22, and should be addressed to the raw materials and scrap section office of the Director of Sales, Washington, to discuss pro-

The successful bidder will be required to contract with the Government to handle the entire quantity of all surplus chemicals, acids and allied products incorporated in the inventory, which will be made a part of the contract. No offer to handle a portion of the available surplus or any single product included in the inventory will be considered.

The following is an enumeration of the principal products which will be embraced in the propsed contract and the approximate surplus of each:

Mixed acid, 17,138,000 pounds; nitric acid, 829,000 pounds; oleum, 6,153,000 pounds; sulphuric acid, 43,880,-000 pounds; acetic acid, 65,000 pounds; absorbent oils, 81,300 gallons; calcium carbide, 636,000 pounds; diphenylamine, 100,000 pounds; naphthalene flakes, 511,-000 pounds; magnesia powder, 21,000 pounds; potassium chlorate, 10,500 pounds; solvent naphtha, 28,200 gallons; caustic soda, 109,000 pounds; methylacetate, 500,-000 pounds; miscellaneous oils, 350,000 gallons.

Patents

Copies of patents may be obtained as follows; United States, 5 cents each; send to United States Patent Office, Washington, D. C.; French, one franc; send to M. M. Belin et Cle, 56 Rue des Frances-Bourgeois, Paris, for patents of the years 1902-1907, and to L'Imprimerie Nationale, 88 Rue Vieille du Temple, Paris, for patents of later date. German, one mark; send to Patent Office, Berlin. British, eight pence; send to Patent Office, London. Postage must be sent for British patents. Stamps are not accepted in payment for U. S. patents. In ordering patents, the number, name of patentee and subject of invention must be stated.

Granted Dec. 2, 1919

1,323,289—Cleburne A. Basore, Pittsburgh, Pa., assignor of one-half to The Koppers Company. Purification of liquids. 1,323,251—Harold S. Davis, and Saul D. Semenow, Pittsburgh, Pa., assignors to The Koppers Company. Purification of liquids. 1,322,263—Hans A. Frasch, New York, N. Y. Dyestuff.

1,223,234-Ray P. Jackson, Edgewood Park, Pa., assignor to Westing-house Electric and Manufacturing Company. Method of hardening synthetic resins.

1,322,285—Carl Jagerspacher, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs dyeing on mordants and process of making

same.

1,323,361—Peter Grabler, Lakewood, and Joel G. Phipps, Cleveland, Ohio, assignors to The Youmans Machine Company. Apparatus for mixing and dispensing heavy liquids.

1,333,367—Henry A. Kohman, Truman M. Godfrey, and Lauren G. Ashe, Pittsburgh, Pa.. assignors to Ward Baking Company, New York, N. Y. Method of comminuting hard fats.

1,223,528—John G. Gotty, Jacksonville, Fla. Process for lining turpentine barrels.

1,223,540-Hugh K. Moore, Berlin, N. H., assignor to Brown Company, Portland, Maine. Process of making ethyl alcohol from wood.

1,323,539—Louis Gottschalk, Rahway, N. J.; Esther Gottschalk, administratrix of Louis Gottschalk, deceased. Process of synthetically producing rubber or like substances.
1,323,623—Karl Farkas, Glen Ridge, N. J. Process of producing dense metal rods of fine powders.

1,833,624—Edmurd M. Flaherty, Parlin, N. J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Pyroxylin solvent and composition containing the same.

1,23,600-Julian S. Gravely, New Haven, Conn., assignor to Winchester Repeating Arms Company. Process of purifying manganese dioxids.

1,323,735—Otto N. Berndt, Chicago, Ill., assignor to Lindsay Light Co. Art of recovering thorium from monazite sands.

1,223,764—Mathias Hauber, Jr., West Haverstraw, N. Y. Recovery of potassium and aluminum compounds.

1,22,792—Alexander Schwareman, Buffalo, N. Y., assignor to Spencer, Kellogg & Sons. Inc. Process of treating py-roxylin and products thereof.

1,223,836-William D. Coolidge, Schenectady, N. Y., assignor to General Electric Company. Method of removing gases and apparatus produced thereby.

-Achille Dryen, Tublze, Belgium, assignor to Societe Anonyme Fabrique de Soie Artificielle de Tubize, Tubize, Belgium. Method for the concentration of sulphuric acid.

1,233,879—George N. Libby, Berkeley, Cal. Process of oxidation of sulphides. 1,333,951—Clayton W. Bedford Akron, Ohio, assignor to Goodyear Tire and Rubber Company. Art of preparing caoutchouc substances and vulcanization product therefrom.

TIN MARKET STRONG

The tin market continues strong, in keeping with the situation in London and the East, but demand in the local market is light at the moment, though it is likely to improve when coal conditions warrant an active resumption in tin plate operations. Importers' quotations are 531/4c to 531/2c for spot and nearby and 531/2c to 533/4c for shipment from London and the Straits.

London has been advancing. Cables quoted standard tin at £309 for spot and £310 10s for futures. Straits were given at £309 10s for spot and £308 10s for shipment from the East in a firm market. Arrivals so far this month have been 1,955 tons, of which 1,315 tons were at Atlantic ports and 640 at the Pacific Coast. There are afloat for this country 5,700 tons.

Manufacturers of carbonic acid gas should find a ready sale for their product in all parts of Mexico, as every town and city has bottling plants for soft drinks which require large quantities.

New Incorporations

The Camthol Corporation, Dover, Del., capital \$600,-000. Camthol drug. T. L. Croteau, P. B. Drew, H. E. Knox, incorporators representing a Wilmington (Del.) trust Co.

The Hudson Laboratories, Manhattan, capital \$20,-000. Medicinal preparations, dyes and drugs. E. Horney, E. Tartell, M. Stahl, 127 Cannon st., New York.

Ray Brothers Corporation, Manhattan, capital \$20,-000. Salts, nitrates and sugar products. S. Schnaps, J. Leiman, A. M. Grill, 2 Rector st., New York.

The Louise Guenther Chemical Co., Manhattan, capital \$10,000. M. B. Cohn, H. A. Cone, A. S. Jasper, 165 East 116th st., New York.

Atmospheric Nitrogen Corporation, Manhattan, capital \$5,000,000. Chemicals and air products. E. L. Pierce, H. H. Handy, H. Otis, Syracuse, N. Y.

Easton Dye and Chemical Corporation, Manhattan, capital \$25,000. A. Jacobson, H. Bloom, S. Berger, 261 Broadway, New York.

Fino, Inc., Manhattan, capital \$15,000. To make chemicals. R. Conlon, W. H. Woolley, W. J. Rapp, 64 Wall st., New York.

Joseph Dabney Varnish Co., Dover, Del., capital \$1,100,000. Saunders F. Jones, William C. Dabney, William Veeheman, all of Louisville, Ky.

Best Medicine Co., Dayton, Ohio, capital \$100,000. John H. Best, George W. Moss, Columbus, Ohio; G. W. Shade, Dayton.

Service Laboratories, Inc., Brooklyn, capital \$15,000. Drugs and chemicals. N. Buell, F. G. Hoyt, G. H. Fein, 148 Penn st., Brooklyn.

Carmen Supply Co., Inc., Manhattan, capital 260 shares preferred stock, \$100 each; 1,000 shares common stock, no par value; active capital \$75,000. To make bleaching powders, alkalies and chemicals. A. L. Becker, J. J. Franc, Y. E. Sheer, 60 Broadway, New York.

George W. Bumm, Inc., Dover, Del., capital \$10,000. To acquire salt mines and salt works. Harvey Bumm, G. Raymond Bumm, Mary C. Arnold, Philadelphia.

Lu-Pe-Do Sales Corporation, Buffalo, N. Y., capital \$10,000. To make lubricants. M. J. Van Aerman, J. N. Souders, H. A. Zimmerman, Buffalo.

Parelwalas, Williams & Co., Inc., Manhattan, capital, \$25,000. Drugs. A. D. and J. A. and R. V. Williams, Buffalo, N. Y.

R. and Z. Corporation, Brooklyn, N. Y., capital \$10,-000. Chemicals. C. and S. Rubin and T. Zinnerman, 766 East Second st., Brooklyn.

Dissolutions-C. Kalle Color and Chemical Co., Inc., Manhattan.

Capital Increases-The Radium Co. of Colorado, Inc., Manhattan, from \$600,000 to \$1,200,000.

Authorization-Frontier Soap Co., Delaware, \$3,000,-000. Representatives, J. C. Roberts, Buffalo, N. Y.

R. M. Ladd, formerly special analyst for the Aetna Works, Aetna Explosives Co., Inc., and more recently operator at the naphthalene plant of the Illinois Steel Co., Gary, Ind., is now chief chemist and factory manager of the Egg-O Baking Powder Co., Ltd., Hamilton, Ont., Canada.

The steamer Zuiderdyk arrived from Rotterdam with 37 cases cinchona bark, 40 casks yellow prussiate potash, 9,452 bags muriate of potash, 15 packages potash bromide, 29 packages red prussiate potash, 27 cases cyanide of potash, 41 cases of cyanide of soda.

Books of Trade Interest

TREATISE ON FEDERAL TAXES, including those imposed by the Revenue Act of 1918 (enacted February, 1919) and other United States Internal Revenue Acts now in force. With commentaries and explanations, references to the rulings and regulations of the Treasury Department and pertinent decisions of the courts. By Henry Campbell Black, LL.D. 4fh edition. 8 vo., 704 pages, buckram. Kansas City, Mo., Vernon Law Book Company.

The numerous and radical changes, both in substance and in detail, introduced into the system of Federal internal-revenue taxes and the processes of their collection by the Revenue Act of 1918 suggested the necessity for the revision of Dr. Black's work, which has long been considered a standard work on the subject of Federal taxation. This new edition includes a consideration, not only of the income tax, but also of the estate tax, the war profits and excess of profits tax, the capital stock tax on corporations, the excise taxes on various occupations, the taxes on transportation, communication and insurance; the stamp tax, and the excise, commodities, and miscellaneous taxes laid by the act of 1918, as well as general chapters on the assessment, payment, and collection of internal revenue taxes, and on the refunding and recovery of taxes illegally exacted. The full text of the income tax provisions of the new law is set forth verbatim in an appendix. Throughout the volume the author's constructions of the law are supported by copious references to decisions that have been passed upon by the courts.

TECHNO-CHEMICAL RECEIPT BOOK. Compiled and edited by William T. Brannt, and William H. Wahl, Ph.D. New and enlarged edition to which have been added many new formulas and processes. Illustrated, 12 mo., 516 pages, cloth. New York, Henry Carey Baird & Co.

This is a new edition of a work which has been long known to workers in many technical lines, containing thousands of receipts and processes relating to chemical technology and their practical application in the useful arts and industries. Most every manufacturer has experienced occasions when a receipt or suggestion for a process would have proved profitable to him, and the chances are that he will find something relating to his need in this book. The materials for the book have been principally derived from German technical literature, which, the compilers state, is especially rich in receipts and processes that are to be relied on; most of them having been practically tested by competent men before given to the public. The statement is made that the matter in previous editions has been read and revised, and the scope of the work augmented by the addition of numerous miscellaneous receipts, thereby bringing the book well down to date. Besides the alphabetical arrangement of the formulas, a carefully prepared index serves to render reference to the various receipts and processes an easy matter.

A BIBLIOGRAPHY OF THE ROASTING, LEACHING, SMELT-ING AND ELECTRO-METALLURGY OF ZINC. Compiled by Harold L. Wheeler, A.B.,B.LS. Technical Series Bulletin, 8 vo., 388 pages, Rolla, Mo. Published by the School of Mines and Metallurgy, University of Missouri.

This list of references, compiled chiefly for the use of instructors and students of the metallurgy department of the Missouri School of Mines, is based chiefly on the collection of material in the library, although fully half of the references relate to material located elsewhere. Taken as a whole, the list is reasonably complete, and represents the enormous literature relating tc zinc, especially in the cases of patents. The various subjects are taken up in the following order: Some references on the general metallurgy of zinc; roasting leaching; smelting; electrothermic smelting; electrolysis of fused materials; electrolysis of aqueous solutions; electrolytic zinc plants; spelter; list of zinc smelting plants in the United States; list of electrolytic zinc plants in the United States.

SOME OBJECTIONS TO PROFIT-SHARING

"Applied Profit Sharing" is the title of a pamphlet by George Clary Wing, of Cleveland, Ohio, who discusses the question of bonuses, welfare work, stock purchases by employees, the United States Steel Co's system of distribution of earnings to salaried men, and other efforts by large interests to hold together a force of picked men and make it a vital asset of the business. Commenting upon the efforts of large shareholders to interest desirable employees in the company by a sale of stock, as the time approaches when the original founders wish to retire, Mr. Wing says:

"Attempts to this end, however, in some respects. have always fallen short of the aim, been disappointing and short lived. A principal holder of this kind, for instance, believes that the services of certain younger men are worth to the company and to him, something over and above their respective salaries, and would secure their loyalty and zeal in an accumulating degree. He frames an arrangement having the appearance at least of a sale of a considerable block of his stock, to be held by the seller until the full price is earned. He reasons that the longer the buyers stay in the service, the harder they work, and the more successful their efforts, the more strongly will they be cemented to the company, and more potent will have to be any inducement to leave. But, let the buyer or the seller in such arrangement die before the stock can be claimed; or creditors of either undertake to ascertain and subject their interests and equities in the transaction, and complications will at once arise.

"Such a plan has but a limited application also, since it cannot be put into effect until shareholders are found who are willing to part with stock at very attractive prices to buyers, and employees who are willing to run in debt for the price. Considered as a permanent policy, the proposition is narrow in scope and nothing else than the selling out of the interest of stockholders as they become inactive in the business, to salaried employees of the company as they become active, a course too much dependent upon individual dispositions and uncertain situations to be an accepted solution of the problem."

SHOULD PATENT RESEARCH DISCOVERIES

The necessity on the part of public laboratories, whether maintained by the Government, educational institutions or private endowment, of having a definite patent policy to the end that their own interests, as well as those of the public, may be conserved, is pointed out in an article in the Journal of the Patent Office Society by Wm. D. Shoemaker. He states in part:

"Inventions without patent protection, unless of striking value, are not likely to become practically available to the public. Hard-headed financiers, manufacturers and business men do not recognize them as possibilities for profit, and these are the agents through whom they must be made of value to the public. With ratent protection, however, they are of greater value to the commercial man, and he is often willing to pay for the privilege of using a patented invention, as he can be assured that competition in the use or production of it will be limited."

Dr. John D. Haseman told members of the Kiwanis Club, Atlanta, Ga., that the Okefenokee Swamp has deposits of sap brown, used in paints, paper and calcimines.

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Treasury Decisions

The U. S. Court of Customs Appeals has modified a decision of the Board of U. S. General Appraisers relating to assessment of duty on containers of hydrosulphite of soda. About three quarters of the containers cannot be opened without practically destroying them. The remainder have screw tops. The collector of customs assessed the contents correctly at 15 per cent ad valorem, and the containers at 20 per cent under paragraph 127, sustained a protest by the importers, and an appeal was taken by the Government to the Court of Customs Appeals, which modified the decision by sustaining the assessment as to three-quarters of the containers and sustaining the decision as to the remainder.

The U. S. Court of Customs Appeals reversed the finding of the Board of General Appraisers in the case of the United States versus the National Gum and Mica Co. The merchandise imported was gum karaya which was assessed 10 per cent ad valorem. The importers claimed free entry. The protest was combined with three other protests then pending which related to similar merchandise. The Board held that the merchandise was entitled to free entry as a crude drug within the provision of paragraph 477, tariff act of 1913. The decision of the Board was modified by the Court of Customs Appeals, owing to the fact that the protest failed to claim free entry under paragraph 477, and the case was remanded for correction on this point.

The case of the United States versus Mallinckrodt Chemical Works involved an importation of homatropine hydrobromide, consisting of ten ounces of the powder in a single glass bottle, packed in a wooden box, the entire parcel weighing less than 2½ pounds. The importation was entered for duty as an alkaloid dutiable at 15 per cent ad valorem, but the collector assessed duty at the rate of 20 per cent ad valorem as a chemical or medicinal compound or combination under paragraph 17, act of 1913. The importers protested and the Board of General Appraisers sustained the protest, and the Government appealed. The Court of Customs Appeals reversed the decision of the Board, holding that the Board had based its finding on what Congress "had in mind," while in reality the language of paragraph 17 is "unambiguous, unmistakable, and unqualified," and should, therefore, be free from extraneous construction. The sole and single test expressed in the provision is that of weight alone with no reference to price, quality, method of manufacture or other consideration.

The plant of the Tungsten Products Co., which was established in Baltimore some time ago to manufacture articles from tungsten, and which passed into the hands of a trustee, was sold on Nov. 3 to Ralph J. M. Bullowa, representing some New York interests, for \$30,500.

The National Lead Company has completed the erection of a plant in one of the east-bay suburbs of San Francisco, Cal., and will shortly transfer a part of its activities there from Selby, Cal., where large smelting works are maintained.

The Bully Hill Mines, Inc., will erect a zinc reduction works at Winthrop, Cal., next year, at a cost of about \$750,000. R. E. Beale is general manger of the company.

V. A. Scully, 1765 Broadway, has been appointed New York representative of the Kelso Manufacturing Co., a New Jersey corporation manufacturing asbestos.

GOVERNMENT MUST HELP TO BUILD UP FOREIGN TRADE, SAYS E. E. PRATT

Vast Areas Waiting on the Action of the United States, He Tells the New Orleans Association of Commerce—Definite Policy Needed on Many Issues

In an address before the Association of Commerce, at New Orleans, Dr. E. E. Pratt, formerly Chief of the Bureau of Foreign and Domestic Commerce, Department of Commerce, Washington, and now president of the exporting concern of E. E. Pratt and Co., Inc., New York, asserted that the inactivity of our Government in the present international situation is likely to have most serious effects upon our foreign trade and might even lead to a crisis of unprecedented proportions in the United States.

"Think for a moment of the vast area awaiting on the action of this Government, for the restoration of normal everyday life—Germany, Austria-Hungary, Poland, Czecho-Slovakia, Finland, Estland, Courland, Latvia, Ukrania, Jugo-Slavia, Bulgaria, Roumania, Turkey and a large part of Asia Minor. These countries cannot move a hand or foot until we say the word, and we remain silent. We, the United States, are preventing the resumption of normal business in Europe, and we, and our Government, will probably be responsible this winter for the loss of more lives than were lost during the great war.

"Not only are the countries that I have mentioned suffering; but we, by our inactivity, by our lack of substantial assistance, have virtually brought our valiant Ally, Italy, to the brink of revolution.

"Our failure to financially assist courageous and stricken France has delayed her recovery by a dozen years.

"Our support of the position of Japan in regard to Shantung has created a sore spot in the Far East that has sowed the seeds of a struggle there that may be scarcely less gigantic, scarcely less bloody and scarcely less cruel than the great war with Europe.

"I have spent some time in criticising the lack of activity on the part of our Government. You probably may ask, 'What could the Government do?' The following may be suggested:

"I. The Government could establish a nominal peace.

"II. The Government could guarantee loans to the rew countries of Central Europe.

"III. The Government could guarantee credits for merchants seeking to do business in Central Europe.

"IV. The Government could declare a definite policy in regard to the foreign investments of American citizens.

"V. The Government could determine upon and announce a definite policy in regard to Mexico.

"VI. The Government could determine upon and announce a definite policy in regard to Russia.

"VII. The Government could accept some of the responsibility that rightfully belongs to the strongest nation in the world, a nation expressing certain high ideals, for example, the mandate of Turkey or Armenia, or the places on the various commissions appointed under the Peace Treaty.

"VIII. The officers of our Government could leave off building political fences, and nursing presidential booms long enough to attack in some more vital place than the newspapers the grave problems that face us at home, such as the spread of social unrest, increasing prices, waste, speculation and a host of others."

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